# The American Artisan
## AND HARDWARE RECORD

54. No. 24. CHICAGO, DECEMBER 14, 1907. $2.00 Per Year.



**TURN BUCKLES**

full line of Bolts, Bolt Ends, Rivets, Lag Screw, Nuts, Washers and Carriage Hardware.

**OLUMBUS BOLT WORKS, Columbus, O.**

**IN THE FRONT RANK FOR 25 YEARS**

**"AMERICAN SEAL"**

ELASTIC OIL ROOFING CEMENT
STOVE PUTTY and ASBESTOS
FURNACE CEMENT

and the superior quality of these goods is still universally recognized.

**THE WM. CONNORS PAINT MFG. COMPANY**
MAKERS
TROY, N. Y.

Western Agent
FRIEDLEY-VOSHARDT CO.
[illegible] Mather Street Chicago, Ill.

Southwestern Agent
STOCKHOFF SUPPLY COMPANY
107 N. Main St., St. Louis, Mo.

TRYING to do business without advertising is like winking at a girl in the dark; you know what you are doing but nobody else does.

NEW DESIGN WORLD'S BEST
**TUBULAR TRACK DOOR HANGER**

We have increased the diameter of the wheel to 2¼ in., making it the easiest running Hanger on the market.

The supplementary wheel prevents derailment. Frame is made of best grade malleable iron. Finished in Aluminum and each pair packed in an individual box, complete with bolts. The track brackets are slidable and may be placed at any point desired. We do not sell catalog houses. Write for prices.

**SAFETY DOOR HANGER CO.**
Manufacturers
Ashland, Ohio Hamilton, Ont., Can.

**"NEVER-BREAK"**
TRADE MARK

Catalog Free

**"NEVER-BREAK"**

**Steel Spiders, Griddles & Kettles**

WILL NOT
Scale Off like cheap enamel.
WILL NOT
Scorch or Burn like light fry-pans and skillets.
WILL NOT
Absorb Grease or Flavors like cast iron.

**THE AVERY STAMPING CO.**
CLEVELAND, OHIO
*Sole Manufacturers*
"NEVER-BREAK" Goods.

**DELTA**

FILES OF QUALITY

**CARVER FILE CO., Philadelphia, Pa.**
An independent organization not connected with the trust in any form, shape or manner.

TRADE MARK
DELTA

**FILES**

**BROWN WELDLESS COW TIES**

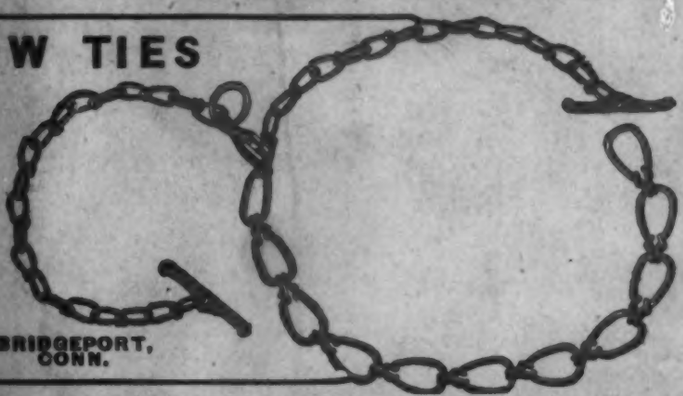
Twice as strong as welded chain.

sample (full length) delivered for **ONE CENT.**

y Retail Dealer sending postal card request with name of Jobber secures sample prepaid.

Sole Manufacturers

**he BRIDGEPORT CHAIN CO.,** BRIDGEPORT, CONN.



Wood or Coal—20 in. and 22 in. Fire Pot.
Several Hundred in Use.

The Man Who Invented and Patented
THE

# SHIVELY PURE AIR STOVE

Received his early education in

## A "CROSS ROAD" SCHOOL HOUSE

He remembered the cold floor—the frosted windows, and that the scholars near the stove were suffering from heat, while those seated on the side aisles were suffering from cold.

His Invention Overcomes the Trouble.

The Shively Pure Air Stove draws the cold air from the floor and replaces it with warm air. In addition to this, it maintains a strong and constant circulation from and to every part of the room maintaining nearly an even temperature at every point.

This stove may be easily connected to draw air from Out-of-Doors, Heating it to the proper temperature and diffusing it through the room in a constant flowing stream.

One of these stoves will increase the average attendance and scholarship of almost any rural school.

They are easily sold to School Boards. They pay a good profit—Do you want it?

## Stove & Range Co. of Pittsburg

# The Man with the KELSEY Agency

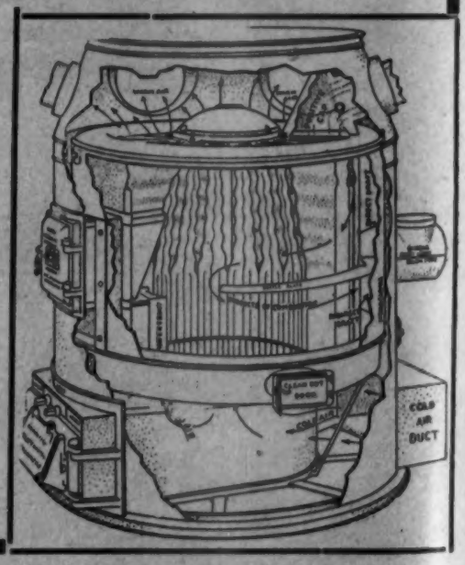
If you've found by experience that the furnaces you have been selling wont work satisfactorily in churches or school buildings,—if you've found it is impossible to sell your present line of furnaces and make any profit,—if you've found your sales increase only with the hardest kind of effort on your part,—take the advice of 800 KELSEY Agencies, **and make a change!**

The Man with the KELSEY Agency is able to sell at a profit, because the KELSEY Warm Air Generator sells at a higher price than the ordinary furnace. It's worth more. People are willing to pay more for it, because the KELSEY really does give a much larger volume of pure warm air, with smaller fuel consumption than any furnace.

If you want your heating business to show a profit in 1908, we want to hear from you.

If we have no agency in your vicinity, we'll be glad to outline our Exclusive Agency proposition, and show you how you can quickly build up a very profitable heating business.

**Are you open for our proposition?**



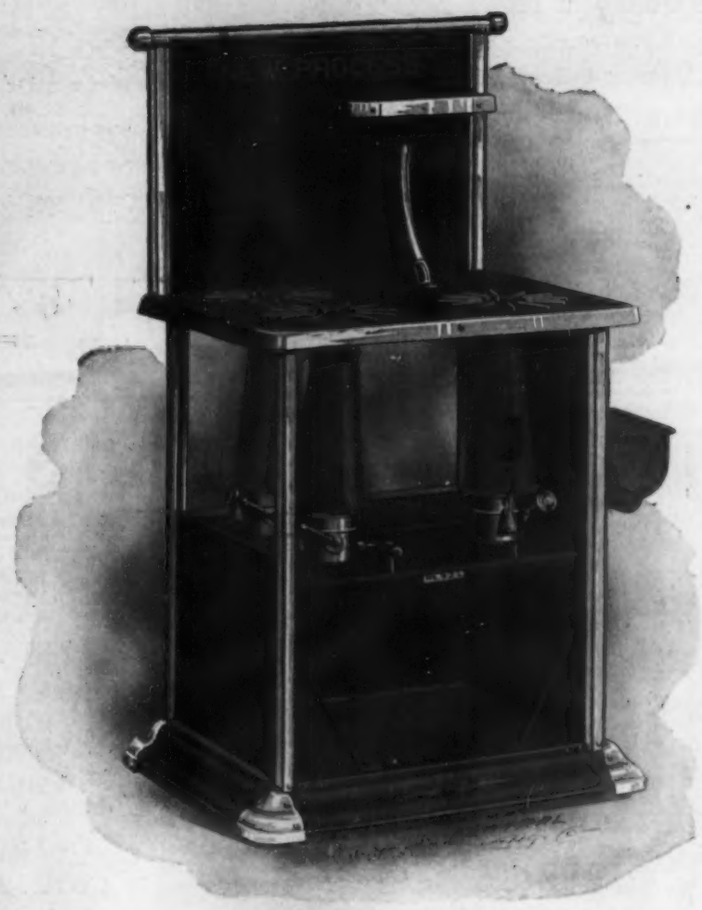

## Kelsey Heating Company

SYRACUSE, N. Y.

New York: 156 Fifth Ave.
Van Evera & Lewis Mfg. Co.
104-106 W. Lake St., Chicago
James Smart Mfg. Co., Brockville, Ont., Sole Makers for Canada

# "New Process" Oil Cook Stoves for 1908

The Latest Improved and Most Perfect Line of Oil Cook Stoves on the Market



Secure the Agency Early so You Can Have the Sale of a Specialty in an Oil Stove

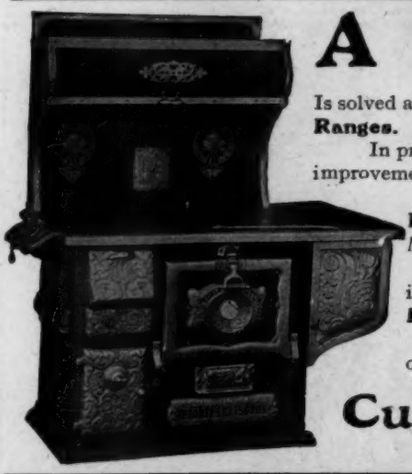
Printed Matter Ready.

Manufactured by American Stove Co.

## Standard Lighting Co.

Division

Cleveland, Ohio.



# A Burning Question

Is solved after investigating the superior features embodied in **Peoria Lexington Steel Ranges.**

In producing this line we employ only skilled workmen, spare no expense and add all improvements that have proven a success under test.

Dealers in all sections, after an inspection of **Peoria Lexington Steel Ranges** have unanimously declared that they have **"More Points of General Merit than any Steel Range made."**

If you want a line that brings a legitimate profit, and eliminates all dissatisfaction upon the part of purchasers, carry in stock **Peoria Lexington Steel Ranges.**

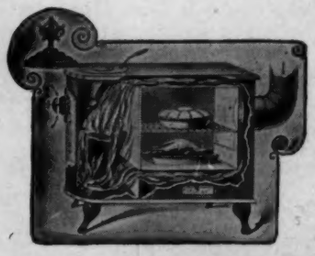
We've just issued printed matter explaining the many unique features of our goods; a postal brings it. **Write to-day.**

**Culter & Proctor Stove Company**

**Hamilton and Water Streets, PEORIA, ILL.**

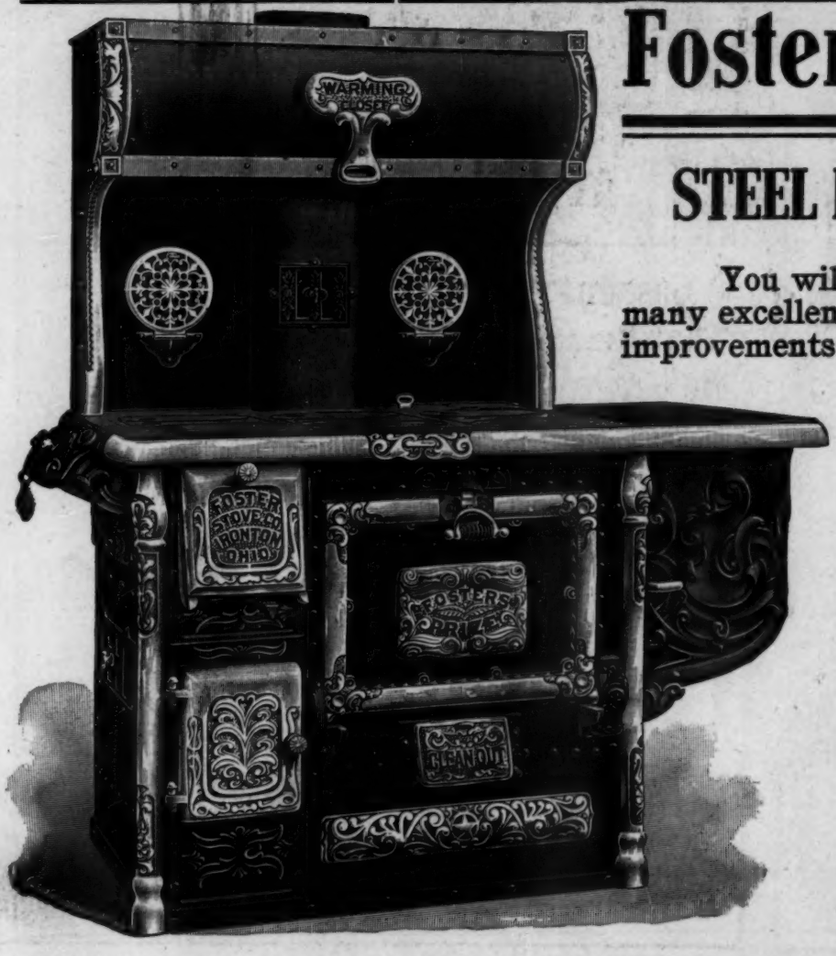
# Sell The Cosby Patent Baker & Heater This Season

The fastest selling stoves on the market, because they fill the needs of the people. Cosby Baker and Heaters do **double** work — they **cook** anything—**heat** any room. Bottom and top of cast iron. If you want to sell more stoves—to make more **money**—write us **at once** for full information. Merchants everywhere are adding the line. We are doing much general advertising.



**Union Stove Co., (Inc.)**

**501-2 Mutual Building Richmond, Va.**




# Foster's Prize

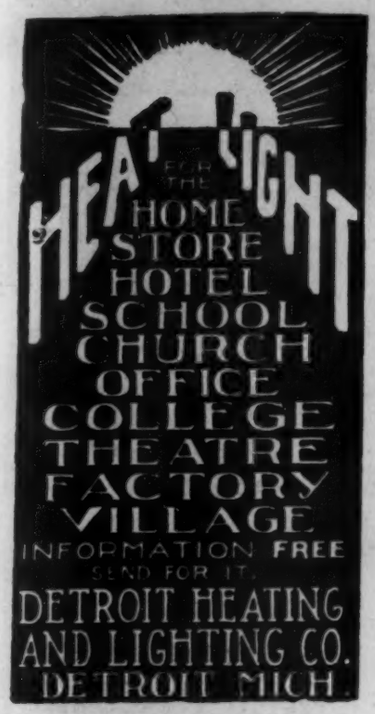
## STEEL RANGE is IT

You will fully appreciate its many excellent qualities. All late improvements of practical value are found in Foster's Prize Steel Range. Order a sample—you will not be disappointed if you secure the agency. Foster's Prize Steel Range is a "dealer's money maker" right from the start.

Send for catalog.

**Foster Stove Company**

**IRONTON, OHIO**



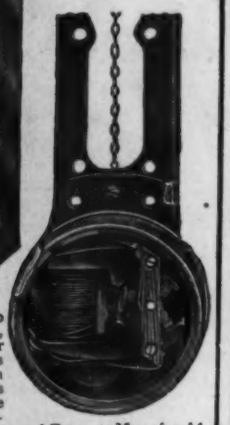
# The Gold Coin Ventiduct Base Burner

is a stove that has never known defect. Many dealers have been convinced of its superiority and are making money—best of all—satisfying every customer who buys a **Gold Coin.** Are you one of the dealers? All stoves have talking points, but the **Gold Coin** has **selling points** that will put any stove in the shade. When you consider quality, workmanship, price and the many good selling points in the **Gold Coin** you positively cannot find a stove anywhere to equal it.

**CHICAGO STOVE WORKS**
**Blue Island Ave. and 22nd Street**
**CHICAGO, ILL.**

# Most Accurate of all Furnace Regulators

**THE C. D. HOWARD AUTOMATIC**
**REGULATES EXACTLY**



Perfectly simple to install. No weights, clock work or springs. Operates without attention all winter and keeps the temperature uniform at any desired point. Builders and Furnace Men should see our new Descriptive Booklet which tells why the C. D. Howard Automatic is cheapest for you and best for your customer. Sent Free.

**Retails for $25.00. Write for Trade Discounts.**

**C. D. HOWARD AUTOMATIC FURNACE REGULATOR COMPANY,**
**127 West Fayette Street, SYRACUSE, N. Y.**

**CUT THIS OUT**

*To the Publishers*
**The American Artisan and Hardware Record**
**69 Dearborn Street, CHICAGO**

Please send us THE AMERICAN ARTISAN each week for three months. At the end of that time we will remit Two Dollars for one year's subscription, or 50 cents in case we decide to discontinue.

Name .....
Address .....
Town ..... State .....

**Write for Circulars and Terms**

## The Ideal Epworth Acetylene Generators

Are Ideal in construction, Ideal in light producing power, Ideal in giving out steady light, Ideal in selling qualities, Ideal in lighting Dwellings, Stores, Hotels, Churches and Towns. Acetylene light is the safest, best, cheapest, brightest, finest light in the world, when produced in the Ideal Epworth Generators. Satisfaction guaranteed. Agents wanted.

**IDEAL EPWORTH ACETYLENE CO.,** (Successors to Epworth Gas, Light & Heating Co., Waterloo, Iowa.)
JOHNSTON, PA. WATERLOO, IOWA

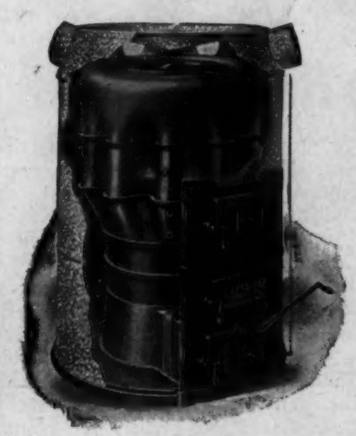
# A Gasoline Lighting System That Requires No Generating

**Pull the Chain and it Lights Instantly**

Is as convenient as electricity or gas and costs less than one-twentieth as much to operate. Looks like the latest Nernst electric arc lights. It will revolutionize the lighting of stores and homes. Anyone can install and own a lighting plant at a cost of from $20.00 up, according to the size of the space to be lighted. **500 Candle Power,** two hours a night for **a Nickel a Week.** Will actually run 40 to 60 hours on **one gallon of gasoline.** Every outfit carries an eleven year guarantee backed by a responsibility that is unquestionable. The only objection to gasoline lighting, viz.:—having to generate the lights before using, entirely overcome. Send for our 48 page catalogue showing many beautiful designs.

**GLORIA LIGHT COMPANY**
17-19 N. CURTIS ST., CHICAGO

# BE HONEST WITH YOURSELF



Can you, in justice to yourself, afford to install for your customer a Heater of inferior quality, when he expects the best, and would gladly pay for the best if shown that such is what he would get.

If you install for your customers the

## "MUELLER"

Furnace or Boiler, they will get exactly what they expect—and you will have a satisfied customer to whom you can refer prospective purchasers—a satisfied customer will advertise your business more than any other method, and it costs you nothing.

Better think the matter over, and then write for the agency of the complete line of

**MUELLER FURNACES and BOILERS**

## L. J. MUELLER FURNACE COMPANY

ESTABLISHED 1857

191 Reed Street MILWAUKEE, WIS.

# Monarch Air Blast

All the advantages of our famous MONARCH plus the air blast. This is a sectional upper fire pot constructed so that oxygen is fed into and above the fuel burning the gases, assuring economy, cleanliness. It is the most practical soft coal furnace offered the trade.

## Forest City Foundry & Mfg. Co.

**CLEVELAND, OHIO**

**Mfrs. The Imperial, Niagara and Combination Furnaces, Registers, Mail Boxes, Hitching and Sash Weights, Etc. Write for our new Catalog.**

# Large Radiating Surface Important

It is the radiating surface which determines the amount of heat a furnace is going to get out of the fuel used. The size of the fire pot determines the amount of fuel a furnace will burn.

## Lennox Torrid Zone

steel furnaces have very large radiating surface nearly doubled in area by the extra indirect radiator through which the hot smoke is made to pass for eight feet of smoke travel. A hanging partition in this radiator causes the smoke to descend within eight inches of the bottom of the radiator before passing up the other side. This is longer smoke travel than any other furnace has and is possible only by reason of the convenient direct and indirect draft change. In Torrid Zone furnaces the indirect draft does not have to be strong enough at all times to permit of opening the fuel door for the direct draft can be had at one pull of a damper rod. Thus when fuel door is closed and damper is turned for indirect draft more of the hot gases can be held back from escaping up the chimney and used as fuel. This makes Torrid Zone furnaces fuel savers. It is only one of the many great selling points of this furnace.

**WRITE FOR 40-PAGE CATALOG**

**Lennox Furnace Co.**

**Marshalltown, Iowa**

**Shaded Sectional Cut**

**of the**

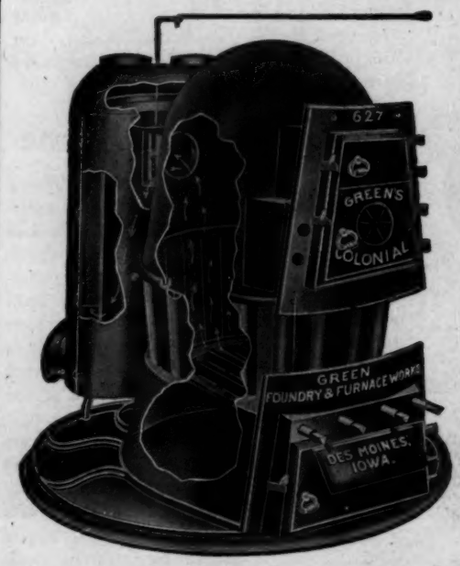
# "Low Down" Crown Warm Air Furnace

**Designed to show the direction taken by the gases and warm air. Also the thickness and staunchness of its parts.**

**March-Brownback Stove Co.**

**POTTSTOWN, PA.**

# A Furnace With Special Features




Which will appeal to your customers with a big margin of profit is what you are looking for. Why sell a Furnace almost like your competitor's? A man to make money must get a specialty and push it. It costs no more than any good furnace and sells a great deal easier.

## GREEN'S COLONIAL FURNACE

***Hot Air Blast Fire Pot*** which allows the heated air to pass into and over the fire, converts the gas and smoke into heat ***reducing coal bills.***

***Double Feed Doors*** which admit large chunks of coal.

***Long Distance Heating*** by means of the oval opening through the center of radiator. The rooms fartherest from the furnace can be as easily heated as rooms with short runs. Heavy radiator with ***long smoke travel,*** provided with ***direct draft*** and cleanout.

Grate bars ***each operating independent*** of the others, three outer supports instead of one inner support; ***deep ash pit, large combustion chamber; water coil pocket; one-piece base ring; large hot air chamber. Heavy, Durable, Economical.***

**WRITE FOR DISCOUNTS! ORDER A SAMPLE**

**Green Foundry and Furnace Works, (Dept. A) Des Moines, Iowa**

---

**More Than 10,000 in Use in St. Louis Alone Giving Absolute Satisfaction.**

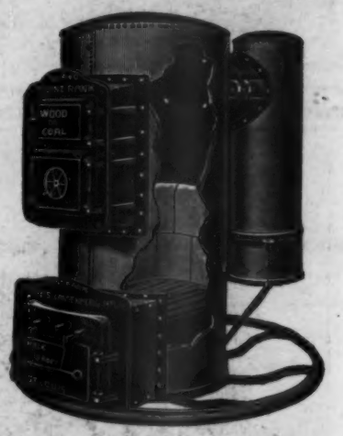
**WHEN WE PROVED THAT**

# The Front Rank Steel Furnace

burns successfully any kind and any grade of fuel—the radiator not choking up—people in St. Louis stopped installing other furnaces and installed the "Front Rank," 10,000 of 'em and they are giving absolute satisfaction to-day.

How about you taking the agency in your town? Good money in it.

**The Front Rank Has the Greatest Demand and Brings the Most Money. Write To-day.**




**HAYNES-LANGENBERG MFG. CO.**

**4045-4057 FOREST PARK BLVD. ST. LOUIS, MO.**

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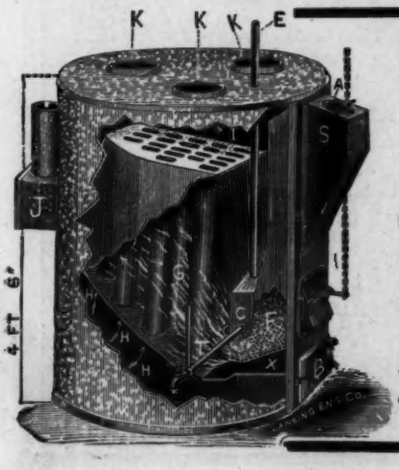


# The Garner Smokeless Soft Coal Furnace

burns soft coal without soot. No smoke nor gas in the house, nor soot in the chimney. The most powerful and economical furnace known. Operates on scientific principles. Made in 3 sizes. Heats with hot air only, or in combination with hot water. Will heat more air with less expense than any other heating device on the market. A magazine feed that gives the steadiest heat.

**Write for Circulars and Prices.**

**Agents wanted everywhere and Traveling Salesmen in every State.**

**THE GARNER HEATING CO., Lansing, Mich.**

# Simple, Durable, Powerful

Our

## Cast Iron Furnace

with Heavy Steel Plate Return Flue Radiator embodies many practical improvements which make it simple to operate, durable and a most powerful heater. Nothing but the very best material used in its construction. **Absolutely gas, smoke and dust-proof.** Good profit in selling our furnaces.

*Write for printed matter and prices.*

**Walter S. Rait & Co.**
**211-213 Lake Street, CHICAGO, ILL.**

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Economy, Cleanliness and Durability All Combined in the

# Moncrief

## Warm Air Furnace

A few of the many good points of the MONCRIEF
- All Cast Iron
- Moncrief Duplex Grate
- Large Radiating Surface
- Top Return Flue
- Double Fire Pot
- Large Grate Surface

**HENRY & SCHEIBLE CO.**
825-29 Long Avenue, N. W.
CLEVELAND, O.

Western Sales Agent
J. C. KIMMEL, 3314 E. 15th St.
Kansas City, Mo.

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Large 10 oz. Can.

# We Make It!

**The BEST Air Drying Iron Enamel Made.**

**Try a 1-Dozen Case From Your Jobber**

**Nickel Plate Stove Polish Co.**
**CHICAGO.**

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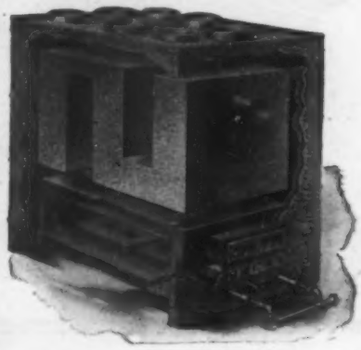

## Natural Gas Hot Air Furnaces.

## The "Manest"

Is easy to operate. Is gas tight. Utilizes the waste heat. Has exceptionally large radiating surface. Write for the agency in your locality. Write today.

**The Mannen & Esterly Co.**
**CLEVELAND, OHIO.**

---

# The APEX Warm Air Furnace

is an extra heavy, durable furnace with a most powerful heating capacity. Its construction is strong enough to resist the fiercest fire. Absolutely gas tight. Will burn hard coal, soft coal or coke. Simple to to operate, economical and thoroughly efficient.

***Write Today for Catalogue***

**Youngstown Furnace & Supply Co.**
**Chicago Office, 211-213 Lake St. Youngstown, Ohio**
**Rood & McIntyre, Kansas City, Mo., Southwestern Distributors**

---

## 100 Tinners' Patterns

**Complete for ... $1.00**

Sent Postpaid on Receipt of Price.

**DANIEL STERN,** 69 Dearborn St., CHICAGO.

# Gilt Edge Badger Furnace

## With Steel Plate Radiator

**Designed** to meet the wants of those desiring a furnace for burning hard coal exclusively.

**Combines** all the features necessary to make it a most convenient, effectual and economical heater of high grade.

**A Good Seller** and a satisfactory producer. Made in four numbers.

**R. J. SCHWAB & SONS CO., Milwaukee, Wis.**

**Catalogues on Application**

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The Record of the

# FLORAL CITY FURNACES

During the past ten years has never been equalled. They are, as a line, the **BEST FITTED AND MOST POWERFUL, ECONOMICAL AND DURABLE FURNACES MADE,** and we stand ready to prove this at any time by actual test. Perfect castings, skillful workmanship, careful supervision, these are the features that mark the superiority of the Floral City.

**Monroe Foundry & Furnace Co., Monroe, Mich.**

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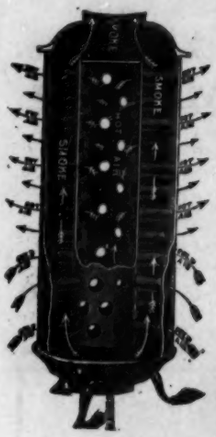



## SAVE ONE-HALF YOUR FUEL

by using the

# Rochester Radiator

Satisfaction guaranteed or money refunded. Over 100,000 of them in use. Fits any stove or furnace. Price from $2.00 to $12.00 We make the original and genuine "ROCHESTER RADIATOR."

**WE DO NOT SELL TO CATALOGUE HOUSES.**

For Hard or Soft Coal, Wood or Gas. We refer all inquiries to you from your town when you carry a stock of our Radiators. We guarantee our Radiators not to choke or interfere with the draught, they are easily cleaned

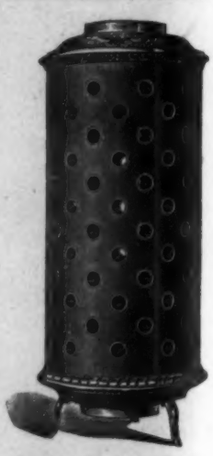
**Write for Descriptive Catalogue and prices.**

**ROCHESTER RADIATOR CO.**

**120 FURNACE STREET, ROCHESTER, N. Y.**

Boston, Mass., S. M Howes Co.
St. Paul, Minn., Farwell, Ozmun, Kirk & Co.
Sioux City, Ia., Knapp & Spencer Co.
Kansas City, Mo., The Hartison & Modica Mfg. Co.
Kingston, N. Y., Canfield Supply Co

Detroit, Mich., Standart Bros., Ltd.
Omaha, Neb., Wright & Wilhelmy Co.
Chicago, Ill., Orr & Lockett Hdw. Co.
Portland, Ore., F. W Isherwood, Esq.
Hamilton, Ont. The D. Moore Co., Ltd



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*For quick results in advertising, or up-to-date trade literature, give me The American Artisan every time.* *CHAS. HAHN, Mandan, No. Dak.*

# DO IT NOW!

Start to-day, dress up your window and send us a photograph of it. That is all that is required to

## ENTER
## THE AMERICAN ARTISAN
## WINDOW DISPLAY COMPETITION

Your window will draw crowds, and in addition we offer:

**$50.00** $50.00 in Gold for photograph and description of Best Window Display of Hardware.

**$25.00** $25.00 in Gold for photograph and description second in excellence.

**$15.00** $15.00 in Gold for photograph and description third in excellence.

**$10.00** $10.00 in Gold for photograph and description fourth in excellence.

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**CONTESTANTS**—Any hardware dealer, or his assistant or clerk, is eligible to this competition.

**TIME**—The photographs may be sent by mail or express, charges prepaid, and must reach this office not later than noon, April 1, 1908. Address all photographs to

### THE AMERICAN ARTISAN PRIZE COMPETITION
**69 DEARBORN STREET, CHICAGO, ILL.**

**CONDITIONS**—Each photograph must be signed by a fictitious name or device, and the same name or device must be put upon a sealed envelope, containing the real name and address of the contestant. This envelope is to be enclosed with the photograph.

**AWARD OF PRIZES**—The Competition Committee, one of whom will be a practical window trimming man and one a practical hardware man, will pass upon all photographs and descriptions received within the prescribed time and will decide between the contestants.

**THE AMERICAN ARTISAN** reserves the right to publish all photographs and descriptions of same submitted in this competition.

# A Strong Selling Combination

When you consider the quality of materials we use and the quality of finish we produce in the manufacture of

## *Champion Steel Ranges*

You will readily see what a strong selling combination we offer you. By selling the *Champion Steel Range*

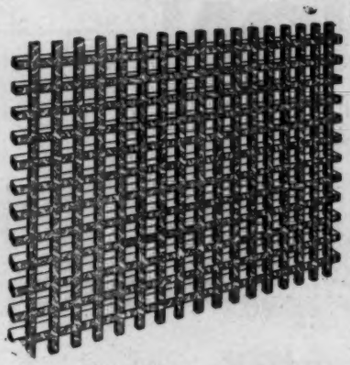
**You Can Successfully**

overcome the cut-price, cut-quality kinds of competition and make a good profit too. Your interest in our catalog is sure to be of money making benefit to you. Send for it.

## Champion Steel Range Co.,

**CLEVELAND, OHIO.**

# A Word to Furnace Men



You are borrowing trouble every time you install a cheap, black iron cold air face, and your troubles never end with such a job.

Insure against trouble on your heating jobs by installing the Wooden Ventilator Company's Hard Wood Cold Air Faces for the floor, side wall, hall seat front, baseboard and stair panel, either square or on the rake of the stairs. They are as much the interior finish after they are installed as the stairs or floor, and should be installed before the painter leaves the job. Write for our circular matter.

## The Wooden Ventilator Co.

**EAST PALESTINE, OHIO**

**Hold Fast Hook and Bolt Device. Patent Pending**

# Symonds Wall Register

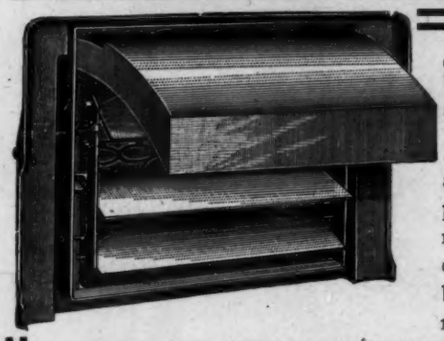
**Showing New Holdfast Hook and Bolt Device.**

One of the styles we make to install above baseboard—installation not necessary until building is finished.

New Hook and Bolt device eliminates tin strap, rivets, cleats, wood, screws, wire and nails. No breaking of plaster. Conforms with strictest fire laws. Saves time and money. Do you catch on, the hook does.

## SYMONDS MFG. CO.

**East St. Louis, Illinois.**



## The Air That Comes

From the ordinary warm air furnace is dry and parched—it withers plants, makes furniture crack — causes headaches. Air to be healthful should contain moisture.

The WATERLOO supplies **moist** air, as well as warm air. The warm air impinges on the lower side of the water pan in the WATERLOO, and causes slow evaporation—in exact proportion to the volume and temperature of the air itself!

**Want Prices and Details?**

## Waterloo Register Co.

**Waterloo, Iowa**

**Pease Fdry. Co., Toronto, Canada**
**Canadian Manufacturers**

The NO-RIVET Damper Clip is a whirl-wind success!

Saves time — saves bother and annoyance, damper can't sag in the pipe — and costs really less than others. Ask for special prices!

**YOU**

need a Tinner, Furnace Man or Hardware Clerk. A want ad in

**THE AMERICAN ARTISAN**

That's all that's necessary to solve the problem.

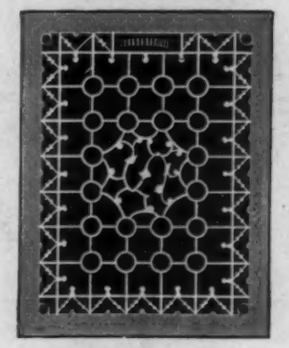
# REGISTERS

Semi-Steel Floor—Cast Iron Floor
Wrought Steel Special Side Wall
Cast Iron Special Side Wall

**We make them all—in all Finishes**
**Get our prices before buying**

ESTABLISHED 1857

**L. J. MUELLER FURNACE CO., 191 REED STREET, Milwaukee, Wis.**



# REGISTERS

**WE DO NOT BELONG TO THE ASSOCIATION**
***MAKERS OF WARM AIR REGISTERS***

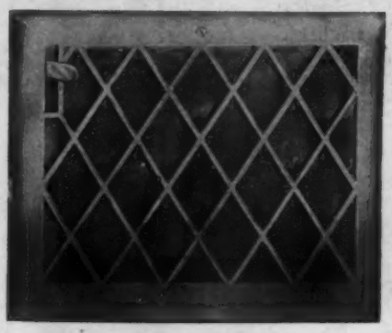
Neat in design and of superior finish. Are interchangeable with all first class makes. We have the largest foundry of any Register manufacturers in the United States.

Our molding room 75x950 feet. We carry large stock insuring prompt shipment.

**Get our prices. We can save you 25%.**

**STANDARD REGISTER CO., Cleveland, Ohio**

**Register Department of The Standard Foundry & Mfg. Co.**



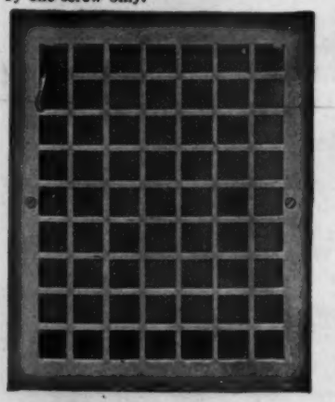
**Imperial Baseboard Register**
**Large Air Openings**

This register projects at the bottom on the floor line and takes a supply pipe 2" deeper than studding. This supply pipe can be extended to second floor. This Register is attached to frame by one screw only.

# ALL BRAND NEW GOODS

**T. & B. Imperial Baseboard Registers**
**MADE WITH SINGLE VALVE**

Cast Registers will not **Rust** or **Wear Out.** If you wish to avoid trouble don't use cheaply made **Stamped Out Sheet Metal** Registers with small air openings. If you do you may be called on to pull them out and put in **Cast Registers** that will **last** and not obstruct the flow of air.

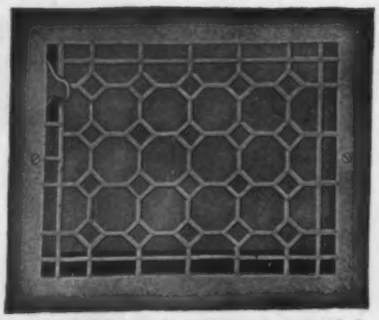


## NEW WAFER REGISTERS FOR SIDE WALL

For shallow flues and thin partitions.
Made with a single Valve.

| Wrought Steel | Cast Iron |
|---|---|
| Plain Lattice | Moorish |
| Design | Design |

Sizes 8x10, 8x12, 9x12 and 10x12 and set both Vertically and Horizontally.



**Tuttle & Bailey Mfg. Co.**

NEW YORK CHICAGO BOSTON

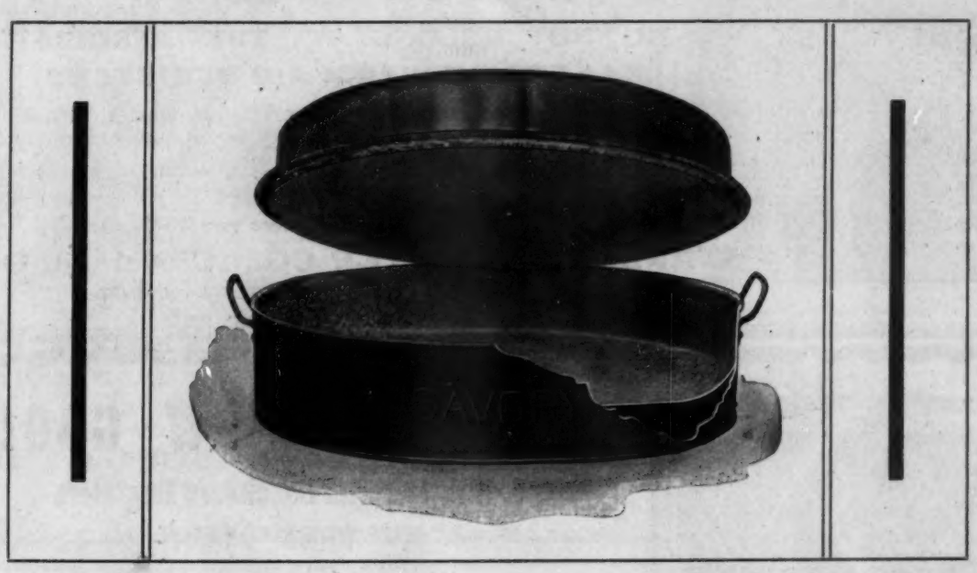
THE

# SAVORY ROASTER

IS A

# Good Christmas Seller

AS WELL AS AT THANKSGIVING



**Keep Savory Roasters on display till Christmas. Lots of them are bought for use at that time.**

## The Savory Roaster Makes a Good Common-Sense Christmas Present

**There is no reason why Savory Roaster buying should stop with Thanksgiving. It will be a fine seller for you right on up to Christmas if you keep it up in front where the women can see it.**

**The sales of Savory Roasters this year are unprecedented. This Roaster has such great merit that the sale of one of them to a woman frequently results in several others buying Roasters. The Savory Roaster is one of the best Self-Advertisers on the market.**

**Don't Fail to Replenish Your Stock for the Christmas Trade**

## THE REPUBLIC METALWARE CO.

**BUFFALO :: CHICAGO :: NEW YORK**

ESTABLISHED 1880.

THE AMERICAN ARTISAN & HARDWARE RECORD

Representative of the Stove, Tin, Hardware, Heating and Ventilating Interests.

PUBLISHED EVERY SATURDAY.

TERMS OF SUBSCRIPTION IN THE UNITED STATES AND ITS POSSESSIONS, (Invariably in advance): ONE YEAR, POSTAGE PAID, $2.00.
IN FOREIGN COUNTRIES INCLUDING CANADA, ONE YEAR, POSTAGE PAID, $4.00.
Address all Letters, Communications, and Remittances to

DANIEL STERN, PUBLISHER AND PROPRIETOR,
69 DEARBORN STREET, CHICAGO, ILL.

Entered at the Chicago Post Office as Second Class Matter.
THIS PAPER IS A MEMBER OF THE CHICAGO TRADE PRESS ASSOCIATION.

CHICAGO, DECEMBER 14, 1907.

THINK confidence and talk confidence, and you will acquire confidence.

Now IS the time to prove your true patriotism by inspiring others with your confidence in the present and the future of our great resourceful country.

**The Normal Price of Copper.**

The great glut of copper which failed to market itself through ordinary channels of normal consumption has, besides destroying the market for the metal, occasioned a systematic reduction of the output to figures that are not only far below the normal but are pressing the extreme minimum of possibility. Many millions of pounds of the metal are said to have been pledged as security for loans in European money centers and it is hoped that by minimizing the American output to work off the surplus and permit the consumptive demand to bring about a restoration of a normal, safe and sane market price for the metal at about 16 cents. As an example of what is being done in the way of reduction of the American output, it is statistically reported that the Great Falls and Washoe smelters of the Amalgamated Copper Co. will show in their November reports a production not to exceed 8,000,000 pounds of copper or a rate of 96,000,000 pounds per year, as against a yearly rate of production of 275,000,000 pounds per year shown in that portion of 1907 preceding the reduction of the output. Or in other words, the restriction of copper output in the Butte district shows a reduction of 66 2-3 per cent below the normal. Former Senator W. A. Clark is reported to have recently said: "The total reduction in copper output is so large that six months ought to see the surplus eliminated. When that is done I expect to see copper go back to 16 cents a pound, and that is enough. At that figure consumption is possible on a large scale, and, while it will not permit all the mines to resume on the old basis, it will still furnish employment for a large proportion of the men who have been thrown out of employment by the recent slump."

**Our October 1907 Gains.**

One needs but to follow the figures that are presented by unquestioned authorities to learn of the wonderful stability and activity of the nation's resources and its boundless wealth, to refute the theory of calamity-howlers as to the real condition of our commercial, industrial and transporting affairs. The internal commerce reports to the Bureau of Statistics of the Department of Commerce and Labor for October, 1907, show heavy movements in the coal and grain trade, the anthracite coal shipments exceeding, for the first time in the history of the trade, the six-million-ton mark for the month. Lake traffic, as measured by the volume of shipments from the various lake ports—11,826,000 net tons—was larger than for any month during the season except August, and exceeded by 28 per cent the October, 1906, total. The number of cars handled during the month by 38 reporting car associations, 3,595,790, was over 7 per cent larger than the number handled in October, 1906, although even the larger car supply did not prevent accumulation and delay of traffic at important centers. The inability of the railways to move all the traffic offered is best illustrated by the decision of certain trunk lines to discontinue temporarily the making of contracts with Western shippers for the transportation of grain from the lakes to the Atlantic seaboard.

The estimated coke production at Connellsville, including the lowest district, for the forty-three weeks of the year, 17,762,903 net tons, shows an increase of almost 9 per cent over the corresponding 1906 figures of 16,334,417 net tons. Although the record for the last week in October discloses an increase in the number of idle ovens, as well as a curtailment of production, the average output for the month is far in excess of the weekly average for the year of 413,091 net tons.

Production of anthracite and coke pig iron, for the month, 2,336,972 gross tons, was larger than during any month of the year, though a curtailment of production is stated to have been started during the latter half of the month. The monthly production figures are about 7 per cent larger than the October, 1906, figures—all the important districts, with the exception of Pittsburg, Mahoning Valley, and Schuylkill Valley districts, showing substantial increases. Figures for the ten months of the year, 22,253,083 gross tons, are about 8 per cent larger than the corresponding 1906 figures—the increase being especially marked in the case of the works located in the central West.

Anthracite coal shipments from the Eastern producing territory for October, for the first time in the history of the industry, exceed the six-million-ton mark, the figures for the month, 6,015,851, being 12 per cent and 15 per cent in excess of the corresponding 1906 and 1905 monthly shipments. Figures for the ten months of the year, 55,661,467 gross tons, are over 10 million tons larger than the corresponding 1906 figures and about 10 per cent in excess of the 1905 season shipments.

Reports from seven leading Eastern coal roads, including the Pennsylvania and Baltimore and Ohio railroads, state the amount of coal and coke transported for the month as 12,411,469 tons, compared with 10,801,417 tons carried during October, 1906—the Pennsylvania lines east of Pittsburg and Erie showing an increase in traffic of almost 900,000 tons for October, 1907, as compared with the October, 1906, total. The figures for the ten months of the year, 117,029,045 tons, are about 14 per cent larger than the corresponding 1906 total—the Pennsylvania lines alone showing an increase of over 8 million tons for the period in question.

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**The Parcels Post.**

The indications now are that the continuation of the vigorous and systematic educational campaign by and in behalf of the retail merchants of the country will defeat in Congress the parcels post measure that Postmaster General George von L. Meyer is endeavoring to force upon the merchants of the country wholly in opposition to their wishes and open protests. In its earliest form, the form in which it was originally presented, the parcels post proposition was objectionable and the weakness of its standing in the face of accumulating disfavor was quite clearly disclosed by the recession of its sponsor from his original position as related to the measure in its initial form in an endeavor to appease the enemies of the proposition by a peculiarly treacherous and inequitable shift that veered directly into the rankest sort of class legislation that might or might not stand the test of constitutional law by incorporating an amending clause which provides for a still further reduction of postal rates upon parcels deliverable within the rural free delivery districts of their origin. It was a bold move but not sufficiently inviting to claim the interest of the opposing merchants and others arrayed against the scheme in this or any other guise and thus it fell flat and unprofitable.

While there is to an extent a self-preservative interest in the position of the merchants of the country in their attitude of opposition to the parcels post measure their is a genuine measure of patriotism to sustain them, as is instanced in the already deficit-burdened condition of our general postoffice department, and in the inevitable clogging of the mails to the serious detriment of all other classes of postal matter. It may and possibly does appear to these opposing merchants that when the postoffice department is self-supporting it will be time enough to juggle with experiments that bid fair to disorganize and transform the postal service into an express or freight service that would work hardship and injury to a million merchants for the benefit of a dozen. Really the merchants of the United States have a voice in this matter, and as has been made clearly apparent they are not at all backward in using that voice as is instanced in a meeting of the board of trustees of the Spokane Chamber of Commerce and the Spokane Merchants Association, on November 25, at which, speaking in behalf of the Inland Empire of the Pacific Northwest, the following resolution was adopted without a dissenting vote:

"We believe that the method of basing an argument favoring parcels post on a comparison of results in Germany, France, Belgium, or any other of the twenty-two countries mentioned as having a parcels post exceeding four pounds, with this country of immense distances is both pernicious and misleading in this: That as the distance of transportation is doubled and quadrupled it adds vastly to the cost of the system, and will thereby excessively increase the government's financial burden and unwisely add to an already heavy postoffice department deficit.

"We believe that to reduce the present merchandise rate from 16 cents to 12 cents a pound, and to increase the package from 4 to 11 pounds, would be to practically change the present over-burdened mail service with merchandise to a regular freight transportation system, which would be entirely foreign to the main object of the organization of the postoffice department of our government and irreparably cripple and delay the rapid transmission of regular mail matter.

"Relative to the argument that larger parcels can be mailed to a foreign country at less rate than the four-pound package can be mailed to points within this country, we have but this to say:

"It is readily understood that this condition is the result of postal treaties with foreign countries and that its application does not affect the mass of the people but our foreign population, consequently we are not opposed to our government giving to our foreign contingent this advantage in parcels post as it is in line with other inducements to foreign immigrants to settle in this country and thus aid in its development.

"We believe that the parcels post system, as advocated by the postmaster general, will also eventually be most injurious to the rapid transmission of regular mail matter and open a door for large mail order houses in central cities to consolidate orders and ship by freight to towns having a number of rural routes, and so distribute from them, at an immense saving over the regular 16 cents a pound rate, and thereby practically annihilate the business of all merchants in interior towns.

"We do not believe that it is a function of government to enter into a general distribution of merchandise under any circumstances; but much more do we object when it is at a heavy loss to our already overburdened and deficit-facing postoffice department.

"We do not believe that the people of the large cities, nor of the small interior towns or the rural communities will be in favor of the government adopting a plan, which will, in any way, cripple or retard the growth of the smaller cities in our country, but gradually lowering the value of all farm lands in their immediate vicinity when they become thoroughly conversant with these facts. We, therefore, recommend the adoption of the following resolutions:

"Resolved, That in the interest of our common country, we are unalterably opposed to the reduction of the present merchandise rate from 16 cents to 12 cents a pound, and that we are most emphatically opposed to the parcel post system as advocated by the postmaster general of the United States."

## RANDOM NOTES AND SKETCHES.

BY SIDNEY ARNOLD.

It is a trite aphorism that reminds us that "the workman is known by his tools" but that this doesn't always go has been proved quite conclusively by a recent occurrence in Cleveland, Ohio, in which some of the Avery Stamping Co.'s new sample shovels and one of their crack outside salesmen are prime factors. The story is this. The salesman bent upon working big buyers at one of the swell Cleveland hotels appeared en route upon Superior avenue carrying two canvas encased bright sample shovels. An Irishman shoveling in the avenue near the square got a flash at the outfit and remarked to a companion shoveler. "Did yes see that guy? Luck at him. Sure I've seen many stuck up people but that's the first wan I iver seen goin' to wurruk wid his shovels done up in cases like tinnis rackets."

* * *

As an illustration of the great, manly American optimism that does one's heart good to consider—to contemplate—I cannot fail to recall a specimen that came to my notice in an Ohio hotel during the Spanish-American war. When the battleship Oregon was ploughing its way through a thirteen thousand mile stretch from San Francisco around the horn to unite with the American fleet in Atlantic waters, there was everywhere and in that hotel crowd upon that night much pessimism expressed as to the great ship's chances of connecting without encountering the Spanish fleet and solitary destruction, and as the discussion of the possibilities waxed warm a big, manly optimist arose, disgusted, in the midst of the party and remarked: "You timid people make me tired. Why, if the Oregon encounters that Spanish crowd she'll not only thrash the whole lot of 'em but she'll come in towing the whole outfit behind her." That's the spirit of confidence that is worth while, the spirit of confidence that would have avoided our recent financial uneasiness had it been generally present among our business men. The spirit of courage and confidence that apparently inspired Ella Wheeler Wilcox when she wrote:

It is easy enough to be pleasant
When life goes by like a song,
But the man worth while
Is the man who can smile
When everything goes dead wrong.

* * *

A letter from Mr. W. C. Dickey of the Ward-Dickey Steel Company of Indiana Harbor, Ind., assures us that the courageous ones, the ones who never lose their nerve nor confidence, still exist among us. He writes:

THAT COMET MISSED US AFTER ALL.

Uncle Sam's farm all here, with less mortgages on it than ever before and in a wonderful state of productivity.

In Agricultural, Mining, Forestry, Fisheries and other products, good old mother earth turned into the lap of her U. S. children in 1907 the unprecedented total of over $10,000,000,000, and it must go to market.

Railways all here, and several miles extra, with motive power and rolling stock increased.

Mills and factories in "A-1" condition, ready to convert these products into what human beings want and turn them over to the railways to retransport to the consumers, who are able to buy what they need.

More money in the country than ever before, since we were a country, and every dollar of it good as gold.

Banks sound, and doing business at the old stand.

What's all this fuss about? Let's "Play Ball" and not "bawl," but get to work.

* * *

A line of thought for catalogue house patrons is to be found in the following verses which strayed in upon me recently without the tag of the author nor have I been able to learn to whose credit they should go, but they tell so good a story that is applicable to the whole theory of the advantage of home trading that I am constrained to use them, as they relate to the adventures of a dollar bill:

A farmer out in Kansas,
About five years ago,
Went into town one day to spend
Some of his hard earned "dough."
"And in a merry jest," and just
To show his printing skill,
He printed his initials on
A brand new d-o-l-l-a-r b-i-l-l.

He spent that dollar that same day
Down at the village store.
He thought 'twas gone for ever then,
And he'd see it no more.
But long before that year rolled by
One day he went to fill
A neighbor's order, and received
That same one d-o-l-l-a-r b-i-l-l.

Once more he spent that dollar bill
In his own neighborhood,
Where it would do himself and friends
The most amount of good.
Four times in two years it came back,
As some bad pennies will,
And each time he'd go out and spend
This marked one d-o-l-l-a-r b-i-l-l.

Had he been wise that dollar might
Be in his town today.
But just about two years ago
He sent it far away.
The people who received it then
I know have got it still,
For 'twas to a mail-order house
He sent his d-o-l-l-a-r b-i-l-l.

No more will that marked dollar come
Into the farmer's hand,
And nevermore will it help pay
The taxes on his land.
He put it where it never can
Its work in life fulfill.
He brought about the living death
Of that one do-l-l-a-r b-i-l-l.

The moral of this is, of course, keep the money at home, where it will pay the taxes that sustains the schools, the churches, the newspapers, the road building, the merchants, the charitable institutions and all else.

# News Siftings

The many friends of Mr. James R. Graves, secretary of the Chicago Stove Works, will be pleased to learn that he has wholly recovered from his serious illness heretofore reported in these columns and that he has again resumed his official duties at the stove works.

Mr. John R. McKnight of Philadelphia, Secretary of the Pennsylvania Stove Association and a relative of M. Braton McKnight, President of the Mt. Penn Stove Works of Reading, Pa., has been appointed Manager of the Mt. Penn plant at Reading and will assume his official duties some time during the current month.

The Malleable Steel Range Company of South Bend, Ind., for whose uses an extensive and well appointed plant has for some time been in course of construction, are now occupying the new premises. The new building, 150x200 ft., is of brick and steel construction, three stories high. Opportunities for a largely increased production are provided.

The December number of Graphite in addition to its other attractive features presents a very interesting sketchy review of affairs connected with the recent Atlantic City convention of the American Street and Interurban Railway Association, in connection with which are some very excellent illustrations relating to the Joseph Dixon Crucible Company in connection with the association gathering. As usual "Graphite" is clean, bright and interesting in its December issue.

We are advised by F. M. Borden & Bro., wholesale stove dealers, of 118 North Second street, Philadelphia, that the firm will be represented on the road for 1908 by Messrs. C. B. Smyth, W. Habicht, W. F. Farr and W. P. McConner. We are also advised that the various lines handled by this firm will be strictly up-to-date in every particular and fully in keeping with the good time and prosperity such as the country will be enjoying.

The eleventh annual reception and banquet of the Stove Salesmen's Association of Pennsylvania will be held at the Lu Lu Temple, Garden street, near Broad street, in Philadephia, Pa., on Wednesday, December 18, 1907. The program provides for reception and amusements from 1 p. m. to 6 p. m., for the election of officers for 1908 at 6:30 p. m. and for the banquet at 7:30 sharp. That an interesting afternoon and evening will be had is practically a foregone conclusion.

The Foster Stove Company of Ironton, O., reports most favorable sales of its regular stove lines including the specialties that are offered by the company. "Foster's Winner" Steel Range has been particularly in favor for this season of the year and, as this and several other of the company's specialties possess peculiar merits that are not only readily understood but quickly appreciated, it is but reasonable to expect that their future growth in point of sales will be altogether satisfactory.

The Champion Steel Range Co. of Cleveland, O., offers in Champion Steel Ranges an excellent proposition upon which to build up a steady and growing steel range business because of the merit of the goods offered and the experience that is built into their product. In a recent announcement by the company it is stated that retailers may overcome the cut-price and cut-quality kinds of competition and at the same time make good profits with "Champion" goods. The company's catalogue, which through illustrations and text matter goes into the details of this proposition, may be had upon application to the address indicated above.

A meeting of the newly organized Central Stove Manufacturers' Association will be held at the Southern Hotel in Columbus, Ohio, on December 18. The purposes of the meeting are the election of a permanent set of officers to supplant the present temporary ones. The association will appoint a committee to take up various trade abuses. The stove manufacturers of Ohio and neighboring states feel that they are not being treated fairly by the pig iron interests, and a committee will be appointed to endeavor to bring about a new form of pig iron contract. The association now embraces in its membership practically all of the stove foundries in the central states.

Two very pretty examples of oil heater literature come to us from the A. C. Barler Mfg. Co. of 104 Lake St., Chicago. One of these is a long narrow folder in post card form with the Barler's Ideal Oil Heater Trade Mark and the company's address upon its exterior and some descriptive matter accompanied by a very excellent illustration of the brass lamp used in the Barler Ideal Oil Heater with which an alphabetical descriptive table is given. The other item is a regulation sized post card upon the reverse of which is the theme of the Barler trade-mark in very good photographic reproduction without any display lettering. It is a pretty card and one that many hardware store patrons will be very glad to have.

"Water Supply" is the title of the new and very interesting volume by Fred E. Turneaure, C. E., which comes to us from the American School of Correspondence of Chicago, Ill. The work, which is a volume of 145 pages, deals in an interesting way with the subject of water supply as relates to its sources and consumption, the collection of water supply, the distribution of water supply, the purification of water and in such other subdivisions of the subject as would naturally be found in a very exhaustive treatment of the topic. The work is excellently illustrated, it is to a large extent tabular, and its text, although to a considerable degree technical, is very interestingly written. It is a most valuable compendium of water and water supply from the standpoint of strictly modern observation connected with historical considerations. The work is excellently printed and the illustrations are thoroughly good throughout and it is substantially finished and bound. To those interested in the topic to which the volume relates it would seem that this would be indispensable. By the American School of Correspondence, Chicago, Illinois.

## CLEVELAND CASTINGS PATTERN CO.

Regardless of how money stringency and other misfortunes may have affected the business of other con-

cerns, the Cleveland Castings Pattern Company of Cleveland, O., find its business unusually active. The company accounts for this by the fact that during the recent rush time, preceding the money disturbances manufacturers in general have been too busy to keep track of their patterns which they are now doing as the end of the year approaches. But in anticipation of the increased business these manufacturers are now placing large orders for new patterns given in rushed requests. This is an indication of the greatest confidence as relates to the business of the future and also indicates a distinct preparation for taking care of it.

## THE REGAL PEORIA.

The Regal Peoria base burner, offered by the Culter & Proctor Stove Company of Peoria, Ill., is one of the strictly high grade modern stove constructions of the season. It is of what is known as the

**Regal Peoria.**

Royal type with a swelled and upper in curved mica front with front and side reflector dome. A feature of the construction of the "Regal" Peoria is in its base flue ventiduct arrangement, which provides for large up and down flues at the back corners and large ventiduct flue standing directly between them at the middle of the back plate.

The arrangement of the base provides for a single wide flue with a rounded inner sweep which permits a free circulation of the heat products from the down flue to the up flue in a manner that completely heats all the plates that make up the base section, including the long and high radiating plate of the inlet to the ventiduct.

This base construction, it will be recognized, is a most excellent one and is of the highest modern type. The Regal Peoria is not only wholly modern in its working design and in its construction, but is also a highly ornamental example of stove architecture. It provides a very large field of mica illumination and a great deal of a superior order of cast iron work. Its nickel ornamentation, all of which is of tasteful design includes a very rich and artistically modeled dome cap and swing cover, winged front with griffin head ornamentation, a front shelf name plate, large and elaborate foot rests, full front ash pit door panel, large screw register and solidly nickeled ornamental base.

The Regal Peoria is a clean and good example of modern heating stove making. It is made in 15 x 16½ inch fire pots. Some very good illustrated literature relating to the stove may be had by addressing the manufacturers as above indicated. When writing kindly mention THE AMERICAN ARTISAN.

## PORTSMOUTH STOVE AND RANGE CO.

The new catalogue which is designated as "Catalogue No. 18" by the Portsmouth Stove & Range Co. of Portsmouth, O., has recently been issued. An interesting feature of this volume is in the series of photo reproductions of the company's plant, as it existed right after the fire in February, 1906, which entirely wiped out the plant. The photographs show a view looking east, while the fire was still burning and in this there is seen nothing of the plant other than the skeleton of one small building and some corners and chimney work of the main large building.

Another view looking northwest just after the fire shows the utter ruin of the plant other than the one quite small brick building which had been to an extent preserved.

Still another view shows the new offices which are apparently thoroughly well lighted and very nicely furnished.

The catalogue contains numerous illustrations and descriptions of the very many patented devices which have made the Model Steel Ranges by this firm so justly famous. We doubt if any catalogue received by us in many months illustrates so many different patented specialties for one construction of a range.

The description about the special features of the Model Steel Range is very entertainingly writtten, and the care with which this portion of the catalogue has been compiled should bring satisfactory results to this company.

In addition to the numerous illustrations showing the different styles and combinations in which the Model Steel Range is manufactured, the catalogue also shows their Cast Ranges, the Ideal Queen Range and the Regal Queen Range, and also an illustration of their Model Oak Stove.

Copies of the catalogue may be had upon application by addressing the company as above indicated. When writing, kindly mention THE AMERICAN ARTISAN.

# The Hardware Record.

**THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly. You will find these on pages 34 to 39 inclusive.**

W. S. Walker has sold his hardware store at Bonaparte, Ia., to E. A. Ray.

The Stanus-Keller Hardware Co. of Colville, Wash., is erecting a new warehouse.

John Lightner, hardware dealer at Hillsdale, Wis., is erecting an addition to his store.

McNeil & Co., hardware dealers at Maynard, Minn., are succeeded by McNeil & Skrudrub.

J. M. Gifford has sold his hardware and furniture store at Ragan, Neb., to R. A. Danskin.

Fegley Brothers have opened up a new hardware store on Center avenue in Reading, Pa.

A. C. Arvidson, general merchant at Marvin, S. D., has recently put in a good stock of hardware.

Miller & Kennedy have succeeded W. S. Kennedy in the hardware business at Broken Bow, Neb.

Bruce, Wilcox & Biegle are the successors of Biegle & Schevle, hardware dealers, at Ashland, Ore.

A. G. Hollada, hardware dealer, of Grand View, Wash., is building a 50 ft. addition to his store.

Magnuson Brothers, hardware dealers at Burgville, N. D., are removing their business to Edgerly, N. D.

Pravado & Wamben, hardware dealers at Landkin, N. D., recently dissolved partnership, E. J. Pravado succeeding.

Griffin & Sommermeier, hardware dealers at Marietta, Minn., have dissolved partnership, N. M. Griffin succeeding.

The Kleimpelle Hardware Store, at Elkader, Ia., was destroyed by fire recently. The loss on stock and building was $4,000.

K. O. Standley has taken possession of the hardware store at Ivanhoe, Minn., which he recently purchased from Iverson.

Cassidy, Hackett & Rowe Hardware Co. at Campbell, Minn., recently suffered a loss by fire amounting to $6,500, with insurance $4,500.

Daniel Dirtz has disposed of his interest in the hardware business of Dirtz Brothers at Elmwood, Neb., to F. W. Lorenz. Mr. Lorenz came from Magnolia, Ia.

G. W. Nafus and A. E. Cole of Vienna, S. D., have recently formed a co-partnership and will engage in the hardware business at the new town of Hayti, S. D.

The J. R. Nagle Hardware Company of Cuero, Tex., has been organized with a capital stock of $10,000. The incorporators are H. J., H. W. & R. Nagle.

A fire in Luverne, Ala., on November 30th caused a loss to Searcy Brothers hardware store. The amount of the loss and the insurance have not been reported.

A fire at Columbus, N. D., on November 28th, destroyed the hardware and implement store of Lindstrom & Westlund. The loss is reported at $4,500 and the insurance at $4,000. McMonagle & Son, hardware and furniture dealers, also at Columbus, suffered a loss of about $6,000, with $6,000 insurance, from the same fire.

The hardware store of Alvin Gingrich at Palmyra, Pennsylvania, was burglarized recently and goods to the value of $200, consisting of guns and cutlery were taken.

The American Nailless Horseshoe Co., recently incorporated, has begun the erection of a factory plant at Lebanon, Pa., the dimensions of which are to be 60x150 feet.

The Neff Hardware Company of Wheeling, W. Va., which recently bought out the bankrupt stock of K. Hoge, is reducing the stock very materially through a cut price sale.

The United States Steel Lock Company of Lyons, Ia., have just completed the installation of a new 125 horse power Corliss engine, and the lock plant has resumed operations.

John S. Brown of the J. S. Brown Hardware Co., hardware jobbers of Galveston, Tex., has severed his connection with the company, which was founded by him many years ago.

The Enloe Hardware Company of Enloe, Tex., suffered a fire loss on November 27th at which time a very disastrous fire swept away a good portion of the business part of the town.

The hardware firm of Siegelburg & Palm of Essex, Ia., has been dissolved, Mr. Palm retiring in favor of a Mt. Butler, who acquired his interest. The firm as reorganized is Siegelburg & Butler.

Frank Brown, hardware dealer of Pekin, Ill., is reported to have filed a petition in bankruptcy in the United States Court at Peoria. The liabilities are reported at $14,250 and assets $12,100.

The Longmont Hardware Company of Longmont, Colo., has been incorporated. The incorporators are Frank F. Rogers, Joseph H. Graves and W. F. Robinson. The authorized capital is $20,000.

A new hardware store has been established at New Waverly, Tex., by parties from Huntsville, Tex., whose names we have not yet learned. A large stock of hardware and furniture is now being put in.

A petition in involuntary bankruptcy has been filed in the Federal Court in Waco, Tex., against the Bryant & Bond Co. of Cameron, Tex. The company has been doing a hardware business at Cameron for some time.

The Pittsburg Portable Radiator Company has been incorporated at Pittsburg, Pa., with a capital stock of $225,000. The incorporators are Mortimer C. Miller, G. T. Miller, J. S. Humbird, C. C. Morrison and L. F. Cotter.

Quite an extensive fire occurred in the village of Siam, Mo., which occasioned a loss of $15,000. The fire broke out in the hardware store that has recently been sold by O. Scrivener to a party from Newmarket, Ia.

Mr. Sam T. White, Secretary-Treasurer of the White Lily Mfg. Company, manufacturers of washing machines, of Davenport, Ia., was among the callers at the office of THE AMERICAN ARTISAN on Sat-

urday, December 7th. Sam has not shrunk any since his last appearance in Chicago—he is the same "Sam" White and the same white Sam.

In a series of interviews by the Atlanta (Ga.) Journal the hardware dealers of Atlanta report that business at the present time is excellent and that the outlook for holiday sales is brighter than it has been in a great many years.

The Clipper Lawn Mower Co., at Dixon, Ill., has recently installed its own electric light plant. Sixty-five lights are used in the plant, for which power is supplied by a five horse power Clipper engine that is manufactured by the company.

The Tacoma (Wash.) News of November 26th has a very good illustration of a new eight story brick block that is being erected for the uses of the Hunt & Mottet Company for its wholesale and retail hardware business. The building, together with a warehouse in the rear, will cost $75,000.

The Denton Woven Wire Fence Co. of Denton, Texas, has been organized with a capitalization of $30,000. The officers are G. H. Blewett, President; J. B. Schmitz, Vice President; J. C. Colts, Treasurer; L. L. Fry, Secretary, and T. R. Blewett, Manager. The company has just completed a factory building, 65x100 ft., costing $7,000, and has installed $10,000 worth of machinery.

The Detroit Heating and Lighting Company of Detroit, Mich., has a department in operation for the benefit of patrons or intending patrons that is designed to furnish information on all matters relating to heating and lighting to retail dealers who have to do with heating and lighting of homes, halls, stores, schools and factories or for the lighting and heating of other structures.

Hardware shelf boxes offered by the A. H. Green Company, manufacturers of International Lock-Corner Shelf Boxes, New York City, are finding a rapidly growing business in the boxes made by them for the reason that their growing use begets a still greater growing use as retail hardware dealers learn more about them. Their attractive and economical features commend them highly.

A series of meetings have recently been held in the offices of J. W. McManus, Secretary of the Retail Hardware Dealers' Association of Texas at Dallas, Tex. We are advised that these meetings, which were held behind closed doors, were called for the consideration of the Anti-Pistol law, the Parcels Post proposition and for the purpose of making arrangements for the next annual meeting of the Retail Hardware and Implement Dealers' Association of Texas.

A feature of the business relating to 'Keen Kutter" Cutlery and other goods in the line that are manufactured by the Simmons Hardware Company of St. Louis, Mo., are found by retail hardware merchants to be among their most ready sellers. Doubtless the reason for this lies in the fact that the manufacturers never lose their interest in a hardware dealer who once becomes one of their patrons. It is their method to stand behind all customers with liberal advertising and with all other methods that will make the "Keen Kutter" goods altogether popular and salable. For this reason not only are the goods popular but the makers are altogether popular as well.

The Nashville Hardware Company of Nashville, Tennessee, is reported to have made an assignment for the benefit of its creditors, naming C. N. Bryan as trustee. The liabilities which are reported to be several thousand dollars, are distributed among a number of creditors, the largest of which is said to be the City Savings Bank of Nashville, whose account amounts to $2,000. The other accounts are reported as small, ranging from $200 downward.

Mr. Fred Buck, vice-president and general manager of the Lufkin Rule Company of Saginaw, Mich., has been abroad on a business trip which included the company's London branch house. He was accompanied upon his return to America by Mr. W. C. Bexfield, manufacturer, of the company's European office in London. Mr. Bexfield will remain in this country for a visit of a fortnight and during that time will participate in the conference of managers and salesmen of the company at the Saginaw office next week.

A special catalogue, designated as No. 2 by the Avery Stamping Company of Cleveland, O., is devoted wholly to shovels, spades and scoops chiefly of the stamped steel variety. It is a very good catalogue of its kind and displays a remarkably extensive variety of the goods, to which it is devoted both as relates to types and to the numbers and varieties of the several types. These goods we learn are made under the Avery patents, and are strong, light and altogether durable. There are many things to recommend the kind of goods here catalogued, and therefore they have become very popular in the hardware trade. The catalogue contains thirty-two pages and is put up under a rich brown flexible board cover, with an embossed front title page that is one of the newest things of its kind in catalogue cover designing that has come to our notice.

An advance illustrated circular by the Ideal Lighting Company of Davenport, Iowa, relates to Ideal Water Power Gas Systems and Ideal Weight Power Gas Systems, both of which are related to gasoline gas productions. We are advised that by the use of either of these devices there is produced a clean, clear white steady light in a continuous and unvarying supply and of aquality that is very highly desirable, as is compared with the ordinary coal gas. These machines are said to be less sensitive in operation than other systems that are made and are for many other reasons thoroughly desirable for home or store or other like places. Some very excellent testimonials are made a feature of the circular. Mr. Sam T. White, who is well known as the secretary-treasurer of the White Lily Mfg. Company of Davenport, Iowa, is president and treasurer of the Ideal Lighting Company.

We learn that the line of vises offered by the G. M. Yost Mfg. Co. of Mechanicsburg, Pa., have gained in popularity to an extent that has made it necessary for the company to greatly increase its facilities for their manufacture. It, therefore, has been decided to move the company's plant to Meadville, Pa., where it now has in process of construction a new factory building which it is expected will be completed by about the

1st of March next, at about which time the entire plant so relates to its equipment and machinery will be installed in the new buildings, which being much larger than the premises heretofore occupied will require considerable addition to its mechanical equipment and to this end the sum of $5,000 or more will be expended for new machinery. The company has in contemplation the erection of a foundry plant as a part of the general equipment, but this will not be undertaken until a period somewhat later. Naturally in the transfer of the plant's location the offices will be located at Meadville as soon as the shops are ready to open there. It is stated that when the new plant is occupied it will rank as the largest and most completely equipped vise factory in the United States.

## CHICAGO RETAIL HARDWARE ASSOCIATION.

Members of the Chicago Retail Hardware Association to the number of 50 or 60 were entertained at a "Dutch Treat Dinner" at the Union Restaurant on Randolph street, Chicago, on Friday evening, December 13th, at 5:30. The dinner was a decided success from all points of view and amid much good cheer it was continued up to 8:30 at which time the Association members adjourned to the Association room in the Masonic Temple where the general affairs of the Association and contingent matters relating thereto were discussed, following which the election of officers was held.

Short speeches were made by President G. R. Lott, James A. Gormley, Daniel Stern, Frank F. Porter, A. J. Englehardt, E. L. Sommers and H. E. Gnadt, and Mr. S. R. Droescher favored the members with a song.

Among the members and others present were the following named Chicago business men:

Jas. H. Gormley, Wm. T. Gormley, G. R. Lott, W. B. Costello, F. F. Porter, Si Kollar, W. H. Bennett, Daniel Stern, Fred Stebbins, Wallace Stebbins, J. L. Smith, Aug. Greenheid, D. McLaughlin, H. E. Gnadt, A. J. Englehardt, John Black, Chas. A. Dalstrom, F. H. Schanze, T. J. Wright, Thos. Conners, A. A. Ainsworth, Fred Kurtz, Henry Fuhrman, Geo. A. Englehardt, Chas. Deinet, V. Jelinek, H. C. Peppler, R. Y. Wallace, Jos. O'Neil, E. L. Sommers, Chas. H. Menzel, F. A. Schmidt, F. E. Sorensen, S. R. Droescher, R. B. Jones, L. P. Brown, Wm. Brown, Gus Johnson, H. E. Rebmann, Emil Sander, H. Muehlhahn, J. H. Clark, Martin Engelhardt.

## AN INTERESTING ITEM.

An excellently devised and as excellently executed item of trade literature by the Republic Stamping and Enameling Co. of Canton, O., is distinctly attractive and interesting. It presents a thoroughly good 5x7 inch photo half-tone illustration of the scene of the unveiling of the McKinley statue at Canton on Sept. 30, 1907, and in conjunction the McKinley Memorial monument, the grand stairway, the attending concourse of citizens and President Roosevelt upon the occasion of the unveiling ceremonies. It is certainly a splendid picture. Other pages of the items relate to the works and business of the company, among which is interesting reference to the "Old English" gray enameled ware that is a product of the company's vast works a view of which excellently reproduced in all the natural colors is a very attractive feature of the publication and gives visual evidence of the marvelous extent of the plant. In connection there are reproduced a large number of testimonials that bear direct witness to the merits and popularity of the enameled ware here referred to. This item of trade literature together with catalogues, etc., are available to the trade upon application to the address herein given. In writing kindly mention THE AMERICAN ARTISAN.

## $100.00 IN GOLD FOR HARDWARE WINDOWS

An error in a portion of the printed matter relating to THE AMERICAN ARTISAN'S prize hardware window display contest caused us to state that the contest would terminate on January 1, 1909. The correct statement should have been January 1, 1908. On account of the discrepancy in dates and the confusion it has occasioned we have been compelled to depart from both dates and make a new one in order that the many who had fixed their intentions in the matter of the contest upon the incorrect date may have ample opportunity to prepare their matter for filing and sufficient time for preparation thereof.

Therefore readers will kindly take notice that the termination of the period in which entries to the contest may be made is April 1, 1908, at 12 o'clock noon.

A list of the prizes to be awarded by THE AMERICAN ARTISAN and the conditions governing its hardware window dressing contest is as follows:

**The Prizes.**

The prizes will be awarded as follows:

First Prize, $50 in gold for the best photograph and description received of a window display of hardware.

Second Prize, $25 in gold for the photograph and description second in excellence.

Third Prize, $15 in gold for the photograph and description third in excellence.

Fourth Prize, $10 in gold for the photograph and description fourth in excellence.

**The Conditions.**

The conditions of the competition are as follows:

The photographs may be sent by mail or express, charges prepaid, and must reach this office not later than noon, on April 1, 1908. Address all photographs to THE AMERICAN ARTISAN Prize Competition, 69 Dearborn street, Chicago, Illinois.

Each photograph and description must be signed by a fictitious name or device and the same name and device must be put upon a sealed envelope containing the real name and address of the contestant. This sealed envelope is to be enclosed with the photograph.

**Award of Prizes.**

A competition committee of three will be appointed, one of whom will be an expert window dresser and one an experienced hardware man. This committee will pass upon the merits of all photographs and descriptions received, without knowing the names or addresses of the senders, and will decide the winners of the contest.

THE AMERICAN ARTISAN reserves the right to publish all photographs and descriptions submitted in this competition.

## WONDERFUL LIGHTNING

**Demonstrations of Its Remarkable Force and Actions—Origin of the Lightning Stroke—Numerous Reports of Curious Freaks of Lightning—Protection From Lightning—Beneficial Results of Lightning Strokes.**

BY H. F. KRETZER, ST. LOUIS, MO.

NO. 1.

In this age of rapid development in all branches of electrical science, and the wide distribution of news, facts, and discoveries through the daily press and trade journals, the general public are kept well informed of the progress and advancement made in the electrical field, especially as regards electricity generated through mechanical and chemical agencies. It is, however, remarkable to note the comparative ignorance of the general public on the subject of atmospheric electricity, its origin, its wonderful force, power and actions, and the proper means of protection.

There is no force in nature that offers a more inviting and interesting field for study than natural or atmospheric electricity. At the present time many eminent scientists are giving this branch of electric science close and careful study, in the hope of controlling and storing natural electricity and utilizing it to the benefit of mankind.

During calm weather there ascends from the earth an invisible stream of vapor into the upper atmosphere which carries with it a considerable supply of positive electricity. Each particle of vapor that is ascending carries upward its charge of electricity. When this invisible vapor has reached the higher atmosphere, the conditions existing there condense it into a mist. The numerous particles of vapor floating in the air are drawn together and the greater the number of these globules, the greater is the quantity of electricity that is stored, as each little globule carries its own charge of electricity. The globules float in the air, each one separate and distinct, and each one is surrounded by air, which acts as an insulator and confines the electric force in each globule. Each globule acts as a center of electric energy on its own account. It is the grouping or massing of these floating globules in the upper regions that forms the clouds.

A cloud is not charged with electricity in all its portions to the same extent. A cloud is not charged only on its outer surface, but throughout its entire extent, and quite frequently the greater portion of the electrical force stored in the cloud is in the center rather than in the outer edges of the cloud. This will explain how electricity or lightning is stored in the clouds. The free electricity which was carried up into the atmosphere with the vapor is at first quite evenly distributed through the cloud, but as the electrical charge becomes more intense, a powerful repellent force is established between the globules of the cloud and a very high degree of tension is produced on the outer and lower surface of the cloud, where it is enveloped by the air.

A cloud in this condition, being carried by the wind over the surface of the earth, acts inductively upon the earth below. The nearer the cloud is to the earth, the more intense is the electric energy, and this tension and expansive energy continues to increase until at last it overcomes the resistance of the insulating air and breaks through it. It is the escape of this charge of electricity that appears to us as the brilliant flash called the lightning flash.

Just before the flash leaves the cloud, the inductive action of the cloud upon the earth below has marked out its path from the cloud to the earth. Each globule, each atom, each minute particle of matter existing in the air upon which the inductive action of the cloud acted, prepared itself for the passage of the lightning flash. The path taken by the lightning flash is termed the line of least resistance.

### DREADED BY HUMAN BEINGS.

Lightning demonstrates to us its power through the lightning flash or stroke, and a close study of these manifestations gives us much valuable information, enables us to estimate its power and compels us to note its destructiveness. The dread and fear of lightning seems to be an almost universal inheritance of mankind. The general atmospheric conditions prevailing during thunderstorms affect the nerve forces in our physical organizations, this being particularly true in the case of nervous and delicate women. Many of such persons become hysterical, their entire nerve force seems to have left them The electricity in the atmosphere exerts an influence over them which renders them irresponsible for what they may do.

Thus on June 4, 1891, at Cincinnati, O., Mrs. Anna Mayhoff, aged 71 years, became so frightened at an electrical storm that prevailed, that she strangled herself.

On June 16, 1891, at Congerville, Ill., a Frenchman named Nooney Brant was crazed by fear of lightning. He attacked and almost strangled his brother before the latter could be rescued. He then became quite violent. Seizing a barb wire fence, he tore the wire from the posts and savagely bit the latter.

On May 22, 1893, at Rochester, Minn., during a very severe storm Mrs. Mary Osmond, aged 70, died from a nervous shock and prostration caused by her great fear of the storm.

On June 16, 1894, at St. Louis, Mo., Mrs. A. J. Hanna was frightened to death in her home, No. 3015 North Market street, by the violence of the storm which raged furiously at that time. She had always been afraid of storms, and grew much excited and very nervous whenever they approached. She was alone in the house at the time.

(To be Continued.)

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The Cutlers' Company, the Chamber of Commerce and the United States Council, of London, England, having at last agreed upon a mark to distinguish foreign cutlery from that of British manufacture, a deputation is to wait upon the President of the Board of Trade, with a view to securing an amendment of the Merchandise Marks Act. The mark decided upon is "Not British," with the word "Not" in capital letters, and so interwoven with the word "British" as to be impossible of separate erasure.

## FORTHCOMING HARDWARE ASSOCIATION MEETING.

The annual meeting of the Kentucky Retail Hardware and Stove Dealers' Association will be held at the Galt House in Louisville, Ky., on February 11, 12 and 13. A hardware exhibition will be given coincidently. It is expected that there will be a large attendance and that the hardware exposition will be an unusually effective one.

The annual meeting of the Minnesota Retail Hardware Association will be held at the Auditorium in St. Paul, Minn., on February 25-28, 1908. Covering the same dates the hardware exhibition will be held under the same roof as that of the meeting of the association and also the affairs and reports of the Minnesota Hardware Mutual Fire Insurance Company will there be heard and considered. We are advised that the insurance society referred to is in a highly flourishing condition, as is evidenced by a statement of the company's affairs under date of November 23, 1907.

The Indiana Retail Hardware Association will hold its annual meeting at Indianapolis on February 18 and 20. In connection with the convention a hardware exhibition will be given which it is expected will eclipse even that of last year, which was so pronounced a success. The exhibition will be held in rooms that are entirely separate from the convention proper. Under the arrangement as now contemplated the convention matters will occupy the portion of the day following noon and in the evenings and the hardware exhibition will engage the attention of delegates and visitors during the morning hours. The exhibition will be held in Tomlinson's Hall. The indications all point to a very interesting session of the convention, and to a most successful exhibit of hardware in the departments arranged for it.

The Connecticut Hardware Association will hold its next annual meeting at Meriden, Connecticut, on February 10th and 11th, 1908. As is now understood the meeting will be confined wholly to the deliberations of delegates and that no manufacturers exhibit will be provided for.

The Minnesota Retail Hardware Association will meet at St. Paul, Minnesota, on February 25th to 28th, 1908. In connection with the meeting an exhibition of hardware will be held in the new Auditorium Building. Ample room is provided for the exhibition and as very excellent facilities provided for ample display rooms, the exhibition feature promises to be more than usually attractive. The outlook for a very interesting annual meeting is exceedingly good, and that the hardware exposition will be a successful one, is almost a foregone conclusion.

The annual meeting of the Idaho Retail Hardware Dealers' Association will be held at Boise City, Idaho, on January 9th and 10th, 1908. It has not as yet been reported to us whether any hardware exhibit will be held in connection with the annual meeting of this association or not.

The annual meeting of the Inland Empire Implement and Hardware Dealer's association, which will be held at Spokane, Wash., will be held in Spokane on January 15th to 17th, 1908. There will be no regular authorized exhibit of hardware by manufacturers and jobbers, as it has been decided that such a display would absorb too much of the time and attention of visiting members to permit the important proceedings of the convention to be carried out and completed within the specified time allotted.

The Oregon Retail Hardware Dealers' Association will hold its annual meeting on January 21st and 22d, 1908, in the Assembly Rooms of the Portland Chamber of Commerce at Portland, Oregon.

The first annual meeting of the Pacific Federation of Retail Hardware and Implement dealers which was organized quite recently will be held on January 23d, 24th and 25th, at the Portland Chamber of Commerce. Some very vigorous work has been done in the matter of organizing this association and in awakening an interest relating to it. It is expected, therefore, that this first annual meeting will be largely attended by Pacific Coast hardware dealers and others interested in these lines in that section of the country.

The next annual meeting of the Illinois State Retail Hardware Dealers' Association will be held in Peoria, Ill., on February 26-28, 1908. Coincident with the annual meeting there will be held the Annual Hardware Exhibition covering the same dates at the Coliseum Building. The preparations for the several sessions of the association's convention have already been arranged and the provisions for taking care of and entertaining the many delegates and guests that will be on hand during the period of the January meetings are all thoroughly arranged. It is anticipated there will be in attendance a larger number of members of the association than has attended any of its previous meetings, also it is represented that the hardware exhibition will be much more complete than others that have been given and that it will contain many more interesting exhibits and attract much more general attention than is customary even with exhibits of this class.

Advance announcement has been made of the tenth annual meeting of the Retail Hardware and Implement Dealers' Association of Texas to be held at Dallas on January 21, 22 and 23, 1908. The meetings will be held in the auditorium of the Dallas Commercial Club and at the Southland Hotel, which has been designated as general headquarters. It is expected that a very large attendance will be had. In the matter of the fight against the Parcels Post measure the association, it may be said in advance, will take vigorous action in the direction of addresses and resolutions in condemnations of Postmaster General Meyer's Parcels Post propositions or anything of like nature.

The North Dakota Hardware Dealers' Association will hold its 11th annual convention at Fargo on January 28-30, 1908. President J. H. Emery of the association states that through the efforts of the officers and others there is promised one of the most interesting conventions of the time that has ever been held in the state. The meetings will be held in the parlors of the Commercial Club, and upon the second day, namely, January 29, will be open to the public. On that day Governor Burke and several other noted speakers will address the convention.

# Advertising Department

**Our readers are invited to send in copies of their advertisements in the local press for criticism. All communications should be addressed to the "Advertising Department" of THE AMERICAN ARTISAN.**

The printers who put newspaper advertisements into type have much to do with their effectiveness and drawing quality. Many splendidly written advertisements become worthless at the hands of unappreciating printers and occasionally a really poor one is brightened and made a winner by a bright compositor. The printer rarely interprets the advertiser's ideas correctly, so it is well for the buyer of space to arrange and select the type in accordance with his own notions. It is a good study for any merchant and one which prevents many disappointments.

The advertisement of the Green Furniture and Undertaking Co. of Centralia, Illinois, is a reasonably good stove advertisement, although it would seem to us that it would have been improved if a short talk about the Howard Oak Stove had been given in connection therewith. People who notice an illustration

THESE COOL

days and evenings impress one that the time for

**Heating Stoves**

is at hand. We are agents for the celebrated

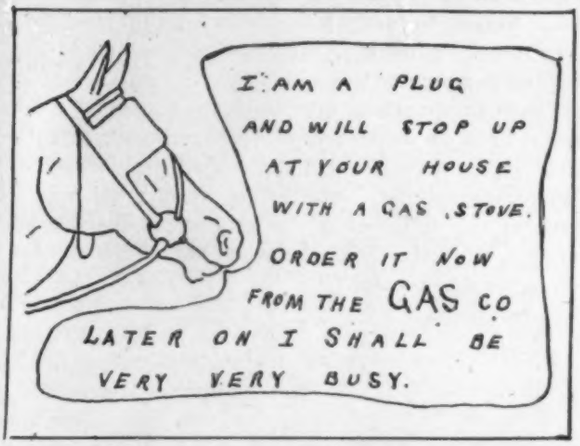
**Howard Overdraft Heater**

and other heaters as well.
Pictures and picture frames to order.

**THE GREEN**
Furniture and Uudertaking Co.
Phones: Main 131. R
Residence. 131. W 133 N. Locust Street.

in an advertisement like to know something about the article it represents, and this could easily have been accomplished in the same amount of space if the name of the stove had been thrown into one fairly strong line and the story told beneath it. The opening of the advertisement is clever and entirely proper as relates to its text, but we think it would have been more effective if the top line had read "These Cool Days," for which there would have been plenty of room even in the large type of the top line by notching the electrotype slightly. The text of the ad is thoroughly good. It is a reminder of the coming cold weather. It calls direct attention to the fact that the company has the agency of the Howard Overdraft Heater and other heaters as well, and calls attention to the other branches of the company's business. A typographical error hurts any advertisement, as it indicates carelessness that many readers are not inclined to tolerate. Such an error occurs in this advertisement in the word "undertaking." This advertisement occupied 4½ inches, double column, in the *Centralia Evening Sentinel* of Centralia, Ill.

The advertisement of the Gas Company is a wholly original one and is so far away from the ordinary methods of newspaper advertising as to attract instant attention. The fact that it is open and sketchy in its character helps it, and thin rule around the space makes the advertisement much more shapely than it would have been without it. The rough print lettering is interesting. The horse talk is right to the point, and




all that the Gas Company has had to say in its invitation to buyers is briefly and cleverly told. This advertisement occupied three and one-quarter inches, double column, in the *Twice-a-Week Republican* of Geneva, Illinois, so evidently it is the advertisement of the Geneva Gas Company.

The advertisement of Wm. H. Hooper & Co. is of the announcement variety. It tells no real story about any one particular feature or department of the firm's business, but merely states that new Fall goods are arriving daily that the firm has a big stock at right prices and offers to save money to buyers. The advertisement is of the handbill variety, and, as to keeping fairly well to the text in the matter of serial selection of the type, the compositor has been reasonably consistent, but the main line of the whole card, namely, "Stove Department," has a wrong font letter which hurts the line very much. It would have been much

SEPTEMBER HARDWARE.

BIG STOCK — NEW FALL GOODS ARRIVING EVERY DAY. — RIGHT PRICES

KEEP YOUR EYE ON OUR

STOVE DEPARTMENT

CUTLERY DEPARTMENT,

PAINT DEPARTMENT,

IF YOU WANT TO

SAVE MONEY.

WM. H. HOOPER & CO.

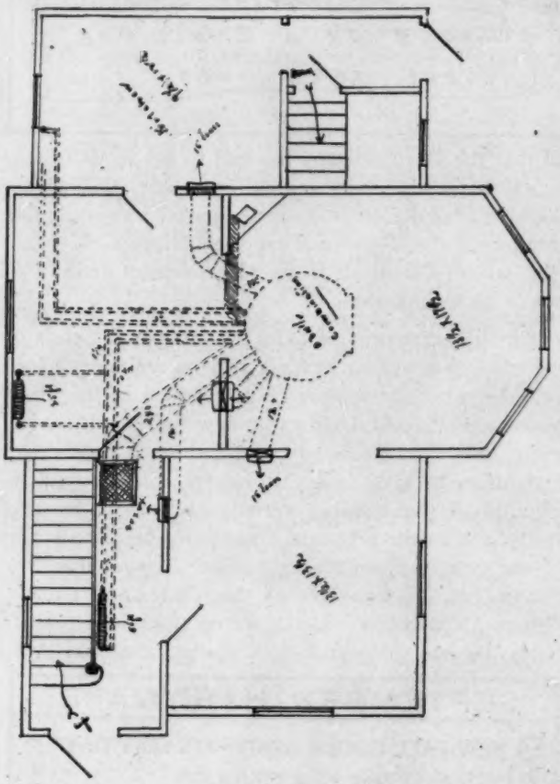
better to have used some other type for this line than to have made it up in this way. The rule work is very good and well applied, and there is evidence of an effort to make a good advertisement of it, but the work has been much too scattered and no one thing has been given particular prominence. This advertisement occupied 18 inches of space—6 inches three columns—in the *Cambridge Herald* of Cambridge, Md.

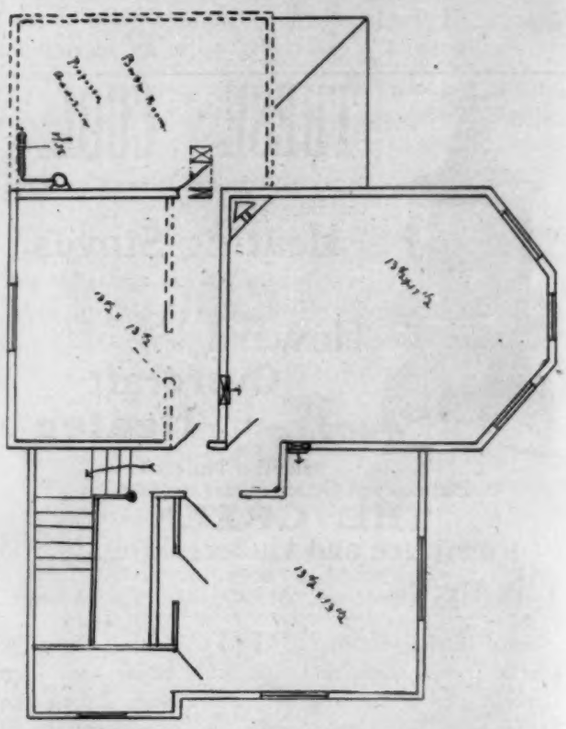
# Heating and Ventilating

## AS TO THE FALKENHAINER PLANS.

In connection with a description of certain combination residence heating plans submitted by Otto Falkenhainer, of Algona, Ia. (page 31, issue of October 19), in company with which the author's drawings were reproduced, Mr. Falkenhainer made the following statement:

"In connection with the combination systems, there seems to be an impression with the consumer that the heat gained from the radiators is so much heat obtained for nothing. But this is wrong; the heat is sent to the radiators at the expense of the hot air system, and care should be taken not to rob the hot air generator too much."





**The Combination Heating Plans by Otto Falkenhainer.**

**Plan First Floor.** **Plan Second Floor.**

To this a correspondent took exception as per the following extract:

"Mr. Falkenhainer, the party that favored you with the plans, makes a statement, which I think is wrong, when he says 'The heat is sent to the radiators at the expense of the hot air system.' This is only partly true. A large part of the work done by a Combination, when properly installed, is not at the expense of the hot air system; but a properly constructed water heater when placed in a furnace will so deflect heat to the sides of the furnace, that the hot air capacity of the furnace is greatly increased thereby, instead of being diminished. We also think that the plans would have been much improved, at a reduced cost, by running the supply and return water pipes on a direct line from the furnace to radiator, same as should be done with hot air. Yours truly, SAM SLOAN."

In reply to Sam Sloan Mr. Falkenhainer writes as follows:

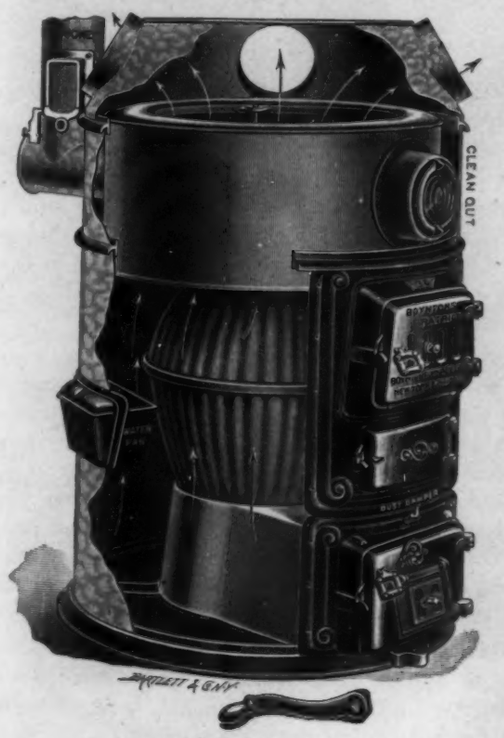
"In reply to the criticism of our Combination system, submitted to you for publication recently, will say that there are many conditions to be taken into consideration and our statement made will in most cases hold good. There may be some furnaces that with the addition of water coils will add to their effectiveness, but the idea I wished to convey was that a furnace of say 20,000 feet rating placed in a house of about that size will not take care of two or three radiators besides, and it is always good policy to figure for a combination system a size of furnace large enough to heat it as a hot air job. A very simple experiment in this respect can be made by taking a range that has done a baking with a certain amount of fuel and adding a range boiler with hot water front. It will take just a little more fuel to do the same amount of work. Regarding the pipe runs will say that the pipes can of course be run straight to the radiators same as hot air runs, but in this particular case we had a limited cellar to work in and placed them the most convenient way. It is, of course, an axiom in hot water heating that the fewer elbows and bends the better the circulation."

## BOYNTON'S "PATRIOT" FURNACE.

The illustration shown herewith is of the "Patriot" furnace offered by the Boynton Furnace Company. It is in mixed construction, that is to say, that it is nominally of heavy cast construction that is designed to operate either with a steel return flue radiator or with

a full cast iron return flue radiator. The arrangement of the radiator sections being such as will permit its attachment to be made in a way that it will leave its exit flue in any chosen position as relates to the front and body of the furnace. The "Patriot" is built on wholly modern lines and is designed to meet the increasing demand for a low pattern of furnace at a medium price.

The cast fire section of the furnace is put up in heavy cast iron and heavily corrugated, as is shown in the illustration and the ash pit section is wide and deep and of large proportions. The grate arrangement is in the triangular pattern of separate bars, each of which may be removed separately. The dust flue damper is mounted in the base of the furnace at a point where it is very accessible. The feed door, ash




**Boynton's "Patriot."**

pit door and clean-out openings are all of large measurements. The door facings are ground to perfect fittings and the doors are mounted with brass hinge pins.

The "Patriot" furnace is thoroughly modern in its details and fittings, its measurements are liberal and the very large amount of radiating surface which is afforded is so arranged as to give off its heat quickly and continuously for utilization in the distributing system. It is offered in four sizes, Nos. 132, 136, 140, 144, and is built gas tight and dust tight.

Catalogues and other literature relating to it and their other warm air furnaces may be had upon application by addressing the company at 147-149 Lake street, Chicago, and 207-209 Water street, New York. When writing kindly mention THE AMERICAN ARTISAN.

## PARAGRAPHS.

The San Bernardino Gas Furnace Co., manufacturers of gas furnaces for utilizing oil fuel, at San Bernardino, Cal., has been incorporated with an authorized capital of $25,000.

"The Home of the Russells," is the title of a delightful little farm story that is published by the Keith Furnace Company, of Des Moines, Ia. The story, which runs largely to correspondence between two brothers, weaves in a very nice tale about the Keith furnace in particular, but not to an extent that in any way injures the pleasure that the little story gives. It is put up in a long and narrow little volume under a handsome cover with a winter farm scene upon its front. The story is nicely illustrated throughout and will be found very interesting and instructive reading.

A well-written catalogue of the Garner Smokeless Soft Coal Heater by the Garner Heating Co. of Lansing, Mich., is interesting because it treats of a furnace that is of an entirely new order and upon a principle which heretofore has been unknown to furnace buying people. In connection with the volume a sectional illustration of the Garner Smokeless Soft Coal Heater is shown in a manner that gives a very clear idea of its purposes and its working. The descriptive matter is of a very good order. It is well written and well arranged and it affords to the reader a very concise understanding of the purposes and the method of operation of the heating device to which it relates.

The current catalogue of furnaces by Walter S. Rait & Co. of 211-213 Lake St., Chicago, is offered in quite an original form. It is made up of large sheets, each of which bears a very excellent illustration and description of one of the company's furnaces. And these sheets, about a dozen in number, are wired at one edge and backed with a legal appearing cover and in finishing the entire affair is made to fold like a legal document with the company's title and address printed upon the exterior front fold. This is an unusual arrangement and as it is in its formation very convenient to carry in the pocket it will, no doubt be quite well appreciated by people who have to do with furnaces.

A feature of the advertising matter of the Kellogg-Mackay-Cameron Company of Chicago is a very handsome booklet, relating to steam and hot water heating apparatus, radiators and some of the other articles that are the products of the company. The booklet is 6 x 8 inches in size, it is exceedingly well printed and its text is thoroughly well written and arranged. Illustrations are shown of the company's premises at Michigan avenue and Twelfth street, Chicago, and following this there are shown thoroughly good half-tone illustrations of the several heating devices mentioned, both in complete and in sectional forms. The volume is put up under an illuminated cover, showing a home scene which is very bright and attractive. Copies may be had upon application.

The success which you may have set your heart upon may be gained only through a succession of successes. Remember that your every effort should constitute a heritage for your future. It is to your success of to-day and to your successes of all your to-morrows to which your crowning success will be heir.

# Tinshop

## WHAT A SHEET METAL WORKER SHOULD KNOW.

BY H. E. OSBORNE.

No. 23.

**Box Gutter.**

I used to dread a job of box gutter. It seemed to be a hard matter for me to put it in properly, and not spend too much time on the job.

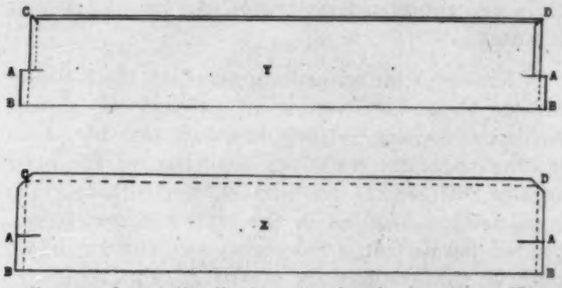
For the benefit of others who may be troubled in the same manner, I will describe my present method. And, by the way, I rather like the work.

We will suppose we have a box gutter job which is to finish over the edge of crown mould with a bead, which is a common style of finish at the present time.

Make up the bead in 28-inch lengths (or in 20-inch if you have only a 20-inch beader in the shop), and of sufficient width to cover the flat or slightly sloped surface between the gutter and outer edge of cornice, and a ¼-inch allowance to turn up to lock the edge of gutter to. For instance, if the deck strip is 2¾ inches, and you have a 30-inch beader which turns a ½-inch bead, cut the tin in 5-inch strips, and cut in with the snips ¾ of an inch deep in each end of each piece, 2 inches from one edge, as shown at A, Fig. 1. Notch the other two corners, being careful to take off corner enough to allow for a ¼-inch fold across the end and along the side also.

Next fold both ends the same as for valley, i. e., in opposite directions, one up and one down, turning clear down so as to lock them together, and fold the edge C D up square, or a little more. Then straighten out the 2 inches of end folds which was previously cut, as shown by dotted lines B A at each end of cut Y in Fig. 1. Hammer these ends down pretty flat with the

Box Gutter Fig. 1.




mallet, so they will slip into the beader readily. Then bead the edge B B, turning the bead on the side opposite to the bend of edge C D.

An end section of the finished piece is shown in Fig. 2, which clearly shows the bead turned *down*, the opposite edge turned *up*, and the up fold of one end, but does not show the down fold of the other end.

Get out enough of these pieces to cover the deck strip, and enough valley (14-inch is wide enough for

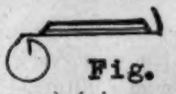


Fig. 2.

most ordinary gutters) being careful that it is well soldered.

Put on the bead first, by putting one in place, then slip the bead of the next over that, and pushing them together far enough to let the fold A C catch over the fold A D, and then pulling back till they lock together.

Nail close to the fold C D, so the heads will be covered when it is hammered down, and put an occasional slim nail through the bead into the edge of crown mould as shown at A in Fig. 3.

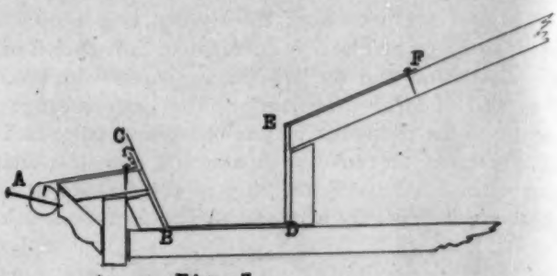



Fig. 3.

When the bead is all in place, measure from bottom of gutter at B to a point about ¼ inch above the turned up edge at C, Fig. 3. Take this measure at the low point of gutter, and again at the high point, and transfer these measurements to the edge of the strip of valley, and bend up with tongs or straight edge and mallet. Then measure the width of gutter B to D, at both ends, as the width often varies as well as the depth, and bend square up.

Next set the tin into the gutter and get into it with one knee, or one foot, to hold it down, and start the edge C over with tongs or plyers, and hammer it down to an angle, and then clinch it tight with cleating tongs or plyers, and finish down flat with the mallet.

Then, still keeping the weight in the gutter, bend the back at E down onto the roof boards, and put in an occasional nail if the roof is to be shingled, but if it is to be tinned, turn up the back edge at F and blind nail, thus leaving it ready to lock the roofing on.

This same method of bead finish may also be used without gutter, if so desired. I have often put on porch roofs with this kind of finish. Using, however, full sheets instead of the narrow strips.

Slit each end of the sheets, and, after folding the two ends and one side, straighten out the narrow part of the end folds, just as described, and turn the bead the same as shown on the narrow strips.

In connection with the box gutter it might be well to mention my way of making the ends. Tinners differ in their manner of doing things, and I do not claim to have the only right way. But I mention these matters, hoping to help some workman who has met with the same difficulties that have hindered me so many times.

I usually cut the tin enough longer than the gutter to equal the greatest depth of both ends, and a little to spare. Then slash straight in at the ends, at each bend, B, D and E, about as far as the height of D E. Bend C B and D E in towards each other, and the bottom, B D, up. Trim off the surplus tin and solder the edges well.

An end may be cut to fit and soldered in, but in most cases this is no advantage, and takes much longer. And in these days of competition, time is quite an object, and the workman who can do things quickly

and well, stands a better show than the one who does them ever so well, but works slowly.

## STAR SPANGLED ROOFING TIN.

The Berger Manufacturing Company of Canton, Ohio, have issued a very attractive leaflet relative to their Pure Rehammered Charcoal Iron Tin Plate branded "Star Spangled," which carries a positive guarantee for twenty-five years.

In this leaflet the company say: "When we determined to make Berger's Star Spangled Tin the best tin in the world, we knew it would have to be made on a pure iron base. There was but one way in which to insure a reliable supply of the grade of iron we had to get, so we built an old fashioned charcoal iron forge in which every progressive step of manufacture is precisely the same as those employed years ago, even to the use of charcoal for fuel. This gives us a perfect base, which is thoroughly cleaned to remove every trace of scale and other impurities and subsequently coated in a uniform mix of carefully prepared lead and tin.

"The sheets are hand dipped and remain immersed for one-half hour in this mixture, so that every pore of the iron is thoroughly impregnated with the coating. When finished every box (112 sheets) of this plate carries forty pounds of pure lead and tin coating. The only flux used is pure palm oil, not an ounce of acid flux being used."

When writing the Berger Manufacturing Company with regard to "Star Spangled" Roofing Tin, kindly mention THE AMERICAN ARTISAN.

## NOTES AND QUERIES.

ADDRESS OF ISAAC A. SHEPARD & CO.

From A. L. White, Ames, Iowa.

Can you give me the address of Isaac A. Shepard & Company, manufacturer of Paragon Hot Air Furnace No. 836 C?

Ans.—Second street and Montgomery avenue, Philadelphia, Pa.

GALVANIZED CORRUGATED FELLOE OILERS.

From Luthe Hardware Co., Des Moines, Iowa.

Can you advise us who makes galvanized corrugated felloe oilers?

Ans.—D. H. Bausman, Bausman, Pa.

BUCKEYE DOUBLE ACTING FORCE PUMP.

From M. Timmer, Dogden, N. D.

Where can I buy the Buckeye Double Acting Force Pump?

Ans.—Deming Company, Salem, O., Mast-Foos Co., Springfield, Ohio.

STOVE CARRIER.

From J. J. Brislan, 311 Broadway, Frankfort, Ky.

Can you give me the name of the maker of stove bars or carriers "like the one shown below by my pencil sketch?"

Ans.—Dee Lye Works, Chicago, Illinois.

LARGE GASOLINE TINNERS' FURNACES.

From Watson & Thompson, Oberlin, Ohio.

Please give us the names and addresses of some manufacturers of large gasoline tinners' furnaces?

Ans.—Burgess Soldering Furnace Company, Columbus, Ohio; Clayton & Lambert Mfg. Company, Detroit, Michigan; The Turner Brass Works, 26 Park avenue, Sycamore, Illinois; Geo. W. Diener Mfg. Company, 77-83 W. Lake street, Chicago, Illinois.

ECLIPSE EAVE TROUGH FORMER.

From John Droegkamp Co., 1515 Fond du Lac avenue, Milwaukee, Wis.

Can you advise me who makes the "Eclipse" Eave Trough Former?

Ans.—Martin Connors, care Troy Paint & Color Works, Troy, N. Y.

FOLDING RULE.

From E. G. Routzahn, Jamestown Exposition, Norfolk, Virginia.

Can you tell me of any firm supplying a nine-foot folding rule?

Ans.—Lufkin Rule Company, Saginaw, Michigan.

ROLL FORMER.

John L. Nims, Norton, Kansas.

Where can I buy a roll former that will form a steel tank with ¾ inch galvanized rod in the top as you would a bucket?

Ans.—Niagara Machine & Tool Works, Buffalo, New York.

STOVE KNOBS AND LATCHES.

From Waters Metal Construction Company, Windom Block, Minneapolis, Minnesota.

Will you kindly advise us of the name of some manufacturer of stove knobs and latches?

Ans.—Troy Nickel Works, Albany, New York.

## ITEMS.

A branch of the National Association of Master Sheet Metal Workers has been organized at Dallas, Texas. Mr. W. A. Jones is president of the Association.

Contracts have been let for a $25,000 factory building to be erected by the National Enameling and Stamping Co. at Milwaukee, Wis., near the present site of the company's plant on St. Paul avenue, Milwaukee.

Fort Worth, Texas, has just recently gotten into line and has organized a Fort Worth branch of the National Association of Master Sheet Metal Workers with W. H. Atwell, president, and Samuel Menger, secretary.

E. H. Johnson, of Port Gibson, Miss., is working diligently in the direction of organizing a branch of the National Association of Master Sheet Metal Workers and is being aided in the work by National Secretary W. H. Barnard and others.

The Jas. H. Watson Company of Bradley, Ill., offers some new designs in sheet metal ceilings that are attracting much attention. They also offer a general assortment of wainscotting and other like goods pertaining to a sheet metal stamping establishment.

The St. Louis offices of the Wheeling Corrugating Company have been removed to 1006-08-10 Spruce street. The new location affords a larger amount of additional room and very much better facilities for

conducting the company's business than has been had heretofore.

We are advised that there is little of encouragement in the present conditions of the health of National Treasurer Battley, of the National Association of Master Sheet Metal Workers, who for some time past has been confined to his home at Norfolk, Va., on account of illness of a serious nature.

A very fine building has recently been erected in Louisville, Ky., to be occupied by the Smith & Nixon Piano Company. J. F. Wagner & Sons are contractors for the tinning on this structure and we are advised that they will use in the work the "Follansbee Banfield" Process Roofing Tin, which is a product of the Follansbee Brothers Company of Pittsburgh, Pa.

A regular meeting of the Brooklyn branch of the National Association of Master Sheet Metal Workers was held on December 5. After the disposition of the business before the meeting an adjournment was taken and a bowling tournament was indulged in. The Brooklyn Association is classed among the most active ones in the country.

An annual entertainment and reception will be given by the Brooklyn Association at Schwaben Hall on Wednesday evening, January 22, 1908. In connection with each evening a journal will be extensively circulated in the city of Brooklyn and its suburbs.

The Louisville, Ky., branch of the National Association of Master Sheet Metal Workers is working along lines of education and affiliation with all the interests that relate to the sheet metal working craft to the end of bringing about a complete understanding between all sections of the interest. It has been the policy of the Louisville Association to invite experienced and capable trade representatives to cooperate with the association through lectures and practical demonstrations of matters relating to trade topics as viewed from outside of the organization and much good has resulted therefrom. The Louisville Association is in a flourishing condition and an unusual interest is manifested in its meetings by all its membership.

Owing to some unavoidable delay on the part of the printers and binders "The Tin Roofers' Hand Book," published by the National Association of Master Sheet Metal Workers of the United States, was to an extent delayed in its completion. The work has been completed, however, and has been delivered to the Philadelphia office and also a supply thereof is on hand at the office of THE AMERICAN ARTISAN. There has been a very great demand for this publication, which has been and will be sent to sheet metal workers and trade applicants free of charge upon application to President Edwin L. Seabrook, 2213 Chestnut street, Philadelphia, Pa., or to THE AMERICAN ARTISAN, 69 Dearborn street, Chicago, Ill. The work will be found convenient and practically an indispensable assistant to roofers in particular.

A meeting of the Master Sheet Metal Workers' Association of Milwaukee, Wis., was held on December 4. The meeting was a very interesting one, in which matters pertaining to national as well as local affairs as related to association matters were quite generally discussed. In the matter of nominations for officers of the association two complete tickets were presented, as follows: For president, Louis Hoffmann and R. Jeske; for vice-president, Ernst Feix and August Bartelt; for secretary, Paul L. Biersach and O. Hoffmann; for treasurer, Geo. P. Schmidt, Wm. Hammann and J. Hollitz. Following the meeting a social "smoker" was held and refreshments were served. Messrs. Hollitz, L. Hoffmann, E. Feix and several other members entertained the party in various ways.

## OBITUARY.

### Charles Douglass.

Chas. Douglass of New York City died on December 4, 1907, aged 78 years. Mr. Douglass was engaged in the hardware business in the city of New York for a period of nearly fifty years. He was among the pioneer manufacturers of barb wire and for a long time was president of the Iowa Barb Wire Company and so remained until the absorption of the company by the American Steel & Wire Company, in which he became a director. Mr. Douglass leaves a widow and one son.

### J. Edward Henke.

J. Edward Henke, Vice President of the Schroeter Brothers Hardware Co., 717 Washington avenue, St. Louis, Mo., died on the morning of November 29 at his late residence, 4214 Labadia avenue, in St. Louis. Mr. Henke's ailment was of a tuburcular character, from which he had suffered for many months. He was 37 years of age and is survived by his wife and one daughter, a child of four years. Employes of the Hardware Company, of which he was an official, acted in the capacity of pall bearers.

### W. L. Hay.

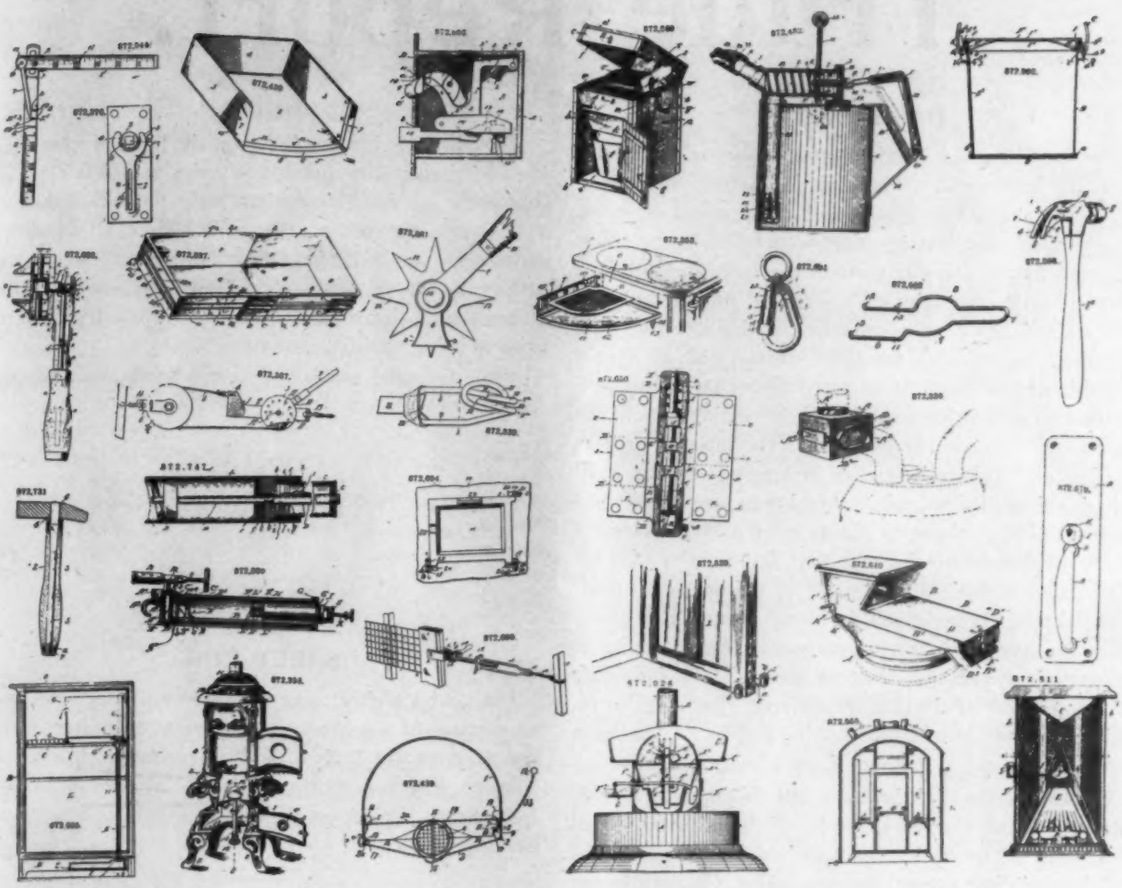
W. L. Hay, who had been engaged in the retail hardware business at Iowa Falls, Ia., for a great many years, died at his home on November 28th at the age of 83 years. Mr. Hay was prominent in business circles of Iowa Falls, and was formerly a member of the City Council.

### Henry J. Hucke.

Henry J. Hucke, a hardware merchant at Kansas City, Mo., died on December 2nd at his home in Kansas City, aged 71 years. Mr. Hucke was a pioneer hardware merchant of Kansas City, where he had been a resident for nearly forty years. Deceased leaves a wife, four daughters and two sons.

Paris has not only witnessed the discovery of a new chemical element, as has often been the case before, but has now the distinction of giving her name to the discovery. It is a metal, and is named lutetium by the discoverer, M. Urbain, who evolved it from nitrate of ytterbium, detecting a difference of atomic weight between the two bodies equal to 169 and 174. Ytterbium is one of the rare earths which have already yielded actinium, polonium and radium.

# NEW PATENTS.



872,837—Adjustable Bake Pan. Jenmatsu Mio, Salt Lake City, Utah. Filed July 23, 1907. Serial No. 385,118.

872,858—Heating Furnace. Francis E. Swift, Dayton, Ohio. Filed June 3, 1907. Serial No. 376,996.

872,861. Lawn Edge Trimmer. Frederick W. Theberath, Lakewood, Ohio. Filed July 9, 1907. Serial No. 382,924.

872,886—Hammer. John C. Bates, Lake City, Fla., assignor of one-half to Franklin J. Appell, Lake City, Fla. Filed June 26, 1907. Serial No. 380,926.

872,896—Door Latch and Lock. Lewis C. Campbell, Kalamazoo, Mich., assignor of one-half to Otto A. Geeseka and Alfred O. Pitcher, Mount Pleasant, Iowa. Filed Aug. 2, 1905. Serial No. 272,371.

872,928—Lantern Burner. Cyrus P. Gifford, Erie, Pa. Filed May 3, 1907. Serial No. 371,705.

872,944—Combined Pocket Rule, Square and Bevel. Theodore Kalma, South Pasadena, Cal. Filed Feb. 20, 1907. Serial No. 358,517.

872,992—Sheet-Metal Pail for Lard, Etc. Jacob Danz, 2d, St. Paul, Minn. Filed Jan. 21, 1907. Serial No. 353,303.

872,330—Air-Moistener for Furnaces. William A. Cunningham, Winona, Minn. Filed Nov. 10, 1905. Serial No. 286,754.

872,339—Snap Hook or Link. John W. Gonce, Chattanooga, Tenn. Filed April 23, 1906. Serial No. 313,182.

872,353—Cooking Stove. Albert Konst, Burlington, Wis. Filed May 3, 1907. Serial No. 371,637.

872,376—Combined Door-Knob and Key Fastener. Charles H. Ruel, Castle Shannon, Pa., assignor to John W. Hinton, Ingram, Pa. Filed Nov. 14, 1906, Serial No. 343,404. Renewed July 27, 1907. Serial No. 385,810.

872,387—Wire-Fencing Stretcher. Benjamin F. Stuart, Rushville, Mo. Filed April 30, 1907. Serial No. 371,082.

872,398—Oil-Burner. John C. Ziegler, Wichita Falls, Tex. Filed Sept. 10, 1906. Serial No. 334,049.

872,429—Animal-Trap. Abner Johnson, Standquist, Minn. Filed April 11, 1907. Serial No. 367,487.

872,439—Scraper-Pan Bit. Winfield S. Livengood, Kansas City, Mo., assignor to Smith & Sons Mfg. Co., Kansas City, Mo. Filed Oct. 23, 1906. Serial No. 340,219.

872,482—Graduated Measuring-Can. Charles P. Tolman, New York, N. Y., assignor of one-half to Edward S. Taylor, New York, N. Y. Filed Jan. 19, 1906. Serial No. 296,780.

872,500—Gasolene Soldering-Tool. William E. Crane and Charles D. Pratt, Binghamton, N. Y. Filed July 18, 1906. Serial No. 326,761.

872,529—Door-Check. Isaac R. Matthews, Barnesville, Ga. Filed May 14, 1907. Serial No. 373,648.

872,560—Dustless Ash-Sifter. Edward Elliott, Calumet, Mich., assignor of one-half to Richard D. Jones, Calumet, Mich. Filed April 17, 1907. Serial No. 368,734.

872,579—Door-Plate and Handle. Albert A. Page, East Haven, and John H. Shaw, New Haven, Conn., assignors to Sargent & Co., New Haven, Conn., a corporation of Connecticut. Filed March 10, 1906. Serial No. 305,339.

872,633—Wrench. Francis G. Anspach, Ida, Mich., assignor of one-half to C. A. Johnson, Chicago, Ill. Filed April 15, 1907. Serial No. 368,271.

872,640—Ash-Sifter. Thomas P. Bolger, Gloucester, Mass., assignor to Success Manufacturing Company, Gloucester, Mass., a corporation of Massachusetts. Filed April 8, 1907. Serial No. 367,076.

872,650—Locking-Hinge. Frank J. Gilroy, Buffalo, N. Y. Filed June 15, 1907. Serial No. 379,230.

872,655—Refrigerator. Henry Johnson, Detroit, Mich. Filed Oct. 29, 1904. Serial No. 230,462.

872,683—Pie-Pan Lifter. Joseph Ray, Decatur, Ill. Filed March 21, 1904, Serial No. 199,138. Renewed Oct. 23, 1907. Serial No. 398,844.

872,691—Swivel. Frank W. Seidl, Manitowoc, Wis. Filed Nov. 14, 1905, Serial No. 287,286. Renewed Sept. 17, 1907. Serial No. 393,325.

872,694—Stove Door. James E. Thiem, Raleigh, N. C. Filed Aug. 1, 1907. Serial No. 386,640.

872,699—Wire Stretcher. David A. Vandevort, Scottsburg, Ind. Filed Aug. 16, 1907. Serial No. 388,871.

872,731—Detachable Tool Handle. John B. Isabel, Columbus, Ohio. Filed June 21, 1906. Serial No. 322,788.

872,747—Magazine Air Gun. David F. Polley, Plymouth, Mich., assignor to Markham Air Rifle Company, Plymouth, Mich. Filed Feb. 7, 1905. Serial No. 244,654.

872,811—Gas Heater. William L. Gibson and James V. Royal, Philadelphia, Pa., assignors to the Royal Gas Heating Company, Camden, N. J., a corporation of New Jersey. Filed Aug. 17, 1906. Serial No. 331,013.

# Trade Report.

## HARDWARE.

The condition of the hardware trade is much the same as last week. There is an active movement of holiday and winter goods and an apparent decrease in pessimism and conservatism expressed in the trade and matters are steadily resuming a normal condition. There is little complaint of scarcity of money and collections are reported excellent. In the interior west optimism prevails as to the future and as a rule throughout the western country there seems no disposition to permit hardware stock in retailers' hands to shrink or become incomplete. Buying progresses steadily and although strong in aggregates the individual shipments to retail merchants are small and frequent. That there is plenty of money in circulation is evidenced by the fact that for months past retail hardware dealers are nearer to doing a cash business than has been known in many years. Even conservative hardware manufacturers are expecting a wonderful revival of business immediately following the completion of the January inventories. Prices remain firm and substantially unchanged in all hardware departments and a feeling of confidence prevails.

Wire nails are slightly easier but this may be largely attributable to the curtailment of building that has been induced by inclement weather for outside work and for building operations generally. Quotations are $2.23 car lots to jobbers and $2.28 car lots to retailers. Less than cars 5 cents advance. Cut nails are quoted: Iron cut, cars to jobbers $2.38; cars to retailers $2.43. Steel cut, jobbers car lots $2.28; retailers car lots $2.33. Barb wire is quoted at, painted car lots to jobbers $2.38; to retailers $2.43. Galvanized, jobbers car lots $2.68; retailers, car lots $2.73. Bright staples, car lots $2.35; galvanized $2.65. In smooth fence wire prices are unchanged at $2.08; cars to jobbers and $2.15 cars to retailers f. o. b. Chicago.

## TIN PLATE.

The tin plate market continues quiet, and business in progress is not of large proportions, and is much smaller than is usual for this season of the year. Present quotations are $3.90 f. o. b. Pittsburgh, with $3.85 still quoted by the independent mills. Prices f. o. b. Swansea for tin plate is 12s 9d. Arrivals of tin plate for the week ending Nov. 30 were 11,357 boxes at New York, and 351 boxes at Philadelphia. Stocks of tin plate in Swansea on Nov. 21 were 126,825 boxes, against 139,013 at the same time a year ago we quote.

For prompt shipment, f. o. b. mill:

| | |
|---|---|
| Coke tins, 14x20, I. C. | 4.05@4.10 |
| Coke tins, 14x20, 100 lbs | 3.90@3.95 |
| Coke tins, 14x20, 95 lbs | 3.85@3.90 |
| Coke tins, 14x20, 90 lbs | 3.80@3.85 |
| Charcoal terne, 20x28, I. C | 7.50@7.55 |
| Charcoal terne, 20x28, 200 lbs | 7.20@7.25 |

Usual differences for odd sizes and weights.

## SHEETS.

Very little is being offered in the way of new sheet specifications. The market is quiet and it is reported that some of the independent mills have closed down and that some other mills will follow. Old orders are being worked up rapidly and many suspension orders have been made. Thus by a process of cutting at both ends the volume of booking for current deliveries is being rapidly closed up.

The following prices are for 500-bundle lots and over, f. o. b. mill:

| | | Galvanized. | |
|---|---|---|---|
| Gauge. | Net. | Net. | List. |
| No. 30 | 2.85 | 4.25 | 21 |
| No. 29 | 2.75 | 4.00 | 19 |
| No. 28 | 2.60 | 3.75 | 17 |
| No. 27 | 2.50 | 3.55 | 16 |
| Nos. 25 to 26 | 2.45 | 3.35 | 15 |
| Nos. 22 to 24 | 2.40 | 3.15 | 14 |

## SHEET ZINC.

Demand for sheet zinc is of small proportions, business being of a more or less routine character. Prices are easy on the basis of $7.00 per 100 pounds f. o. b. smelter, with 8 per cent discount. There is no charge for extras. Prices on cask lots are held at $7.05@7.15 per 100 pounds.

## COPPER.

Prices were again cut in the New York copper market during the week. The reduction was thought to be an actual reflection of the local conditions than the effect of the weakness in the London situation. There is still a paucity of business, and only small lots are being taken around 13⅛c, but it is reported that an offer of 13c for a good-sized block of the metal would have easily bought, in some quarters. The London market is slowly sagging under the tremendous weight of the American shipments to Europe, and dealers as a rule are very pessimistic over the outlook. Prices on the New York Metal Exchange were again reduced ⅛c all around to 13¼@13½c for lake, 13@13¼c for electrolytic and 12¾@13c for casting copper during the week.

The London market weakened again on Tuesday, best selected being off 10s to £64 10s, while in the warrant market, standard spot was down 12s 6d to £60 2s 6d, and futures dropped 10s to £61 5s. Trading was light, being only 200 tons of spot and 400 tons of futures.

Exports from New York and Baltimore were 3,011 tons, or 13,128 tons since the beginning of the month. Arrivals at this port were 205 tons copper and 25 tons matte.

Extreme fluctuations for this year:

| | Highest. | Lowest. |
|---|---|---|
| Electrolytic copper, spot | 25½ | 11¾ |
| Lake copper, spot | 25¾ | 12⅛ |
| Casting copper, spot | 24½ | 11⅝ |

## ALUMINUM.

The market for aluminum continues steady, with a fair amount of business noted. The situation continues to present a seasonable appearance, with quotations firmly held by leading producers. No. 1 ingots for remelting are offered at 40@42c per pound in ton lots, and No. 2 ingots at 38@40c in car lots for 90 per cent pure.

## IRON BARS.

Business in iron bars continues confined to small lots for immediate shipment. Consumers are only taking immediate requirements. Prices are maintained at 1.76@1.81c tidewater. In Pittsburgh there is a good business in small lots for prompt shipment, and prices are firm at 1.60@1.65c.

## COKE.

There has been an easier tone to the coke market recently. With the prospect of decreased iron production next year and the shutting down of the blast furnaces in nearly all sections of the country, contracting has been greatly curtailed. The ovens are being shut down in many cases, and other production is being restricted to five days a week. Prices are about on the basis of $2.75@2.90 for good grades of 72-hour Connellsville foundry for spot shipment, but contract coal is from 25c to 50c higher, while furnace is about on the basis of $1.75@1.80 for prompt shipment, and about $1.90@2.25 for contract coke.

## PIG IRON.

There is apparent a better feeling in pig iron circles that comes with a considerable restoration of confidence and a better money supply. The New York Commercial of Dec. 11 has information of a readjustment of pig iron prices on a basis of an equalization of the markets for northern and southern irons along the lines of relative prices to costs and indicates a wide variation in costs as between the two sections and a probable effort upon the part of southern furnaces to gain more of the country's trade on a basis of competition that will give the south material advantage. There is little doing in iron and the wonder is how manufacturing melters can continue their operations with so little iron as appears to be in sight in small melters' yards. A very large proportion of the iron furnace capacity of the country is out of blast and the proportion is steadily increasing. Considerable inquiry is reported for large tonnages leading into next year's datings and altogether there is an improved tone to the market. We quote as follows.

CHICAGO MARKET.

| PIG IRON | 3.——..—.—.. |
|---|---|
| Lake Superior Charcoal | $25.00@$25.50 |
| Northern Foundry No. 1 | 20.00@ 20.50 |
| Northern Foundry No. 2 | 19.00@ 20.00 |
| Northern Foundry No. 3 | 18.50@ 19.00 |
| Southern Foundry No. 1 | 19.85@ 20.35 |
| Southern Foundry No. 2 | 19.35@ 19.85 |
| Southern Foundry No. 3 | 18.85@ 19.35 |
| Southern Foundry No. 4 | 18.35@ 18.85 |
| Southern No. 1 Soft | 19.85@ 20.35 |
| Southern No. 2 Soft | 19.35@ 19.85 |
| Southern Gray Forge | 18.85@ 19.35 |
| Southern Mottled | 18.35@ 18.85 |

PITTSBURG MARKET.

| | |
|---|---|
| No. 2 Foundry | $18.90@$19.40 |
| Grey Forge | 18.40 |
| Bessemer | 19.90 |
| Basic | 18.40 |

BIRMINGHAM MARKET.

| | |
|---|---|
| No. 1 Foundry | $15.50@$16.90 |
| No. 1 Soft | 15.50@ 16.00 |
| No. 2 Foundry | 15.00@ 15.50 |
| No. 2 Soft | 15.50@ 15.50 |
| Gray Forge | 12.00@ 13.00 |

Rogers, Brown & Co., Cincinnati, will say in their weekly report:

Improvement is noted in various branches connected with the iron and steel trade, although of a slight and hesitating nature. It is believed there will be gradual betterment without any setback unless something unusual should again come up unexpectedly. Inquiry is some better, and while there is no improvement in prices more sales have been made. A considerable proportion of the inquiry lately in evidence has developed recently to have been for purposes of information. As the business done has been largely for spot delivery and in small tonnage, it is practically impossible to give a market figure as result of actual sales.

Curtailment of production continues, and in spite of much cutting down in the consumption lines it will undoubtedly be but a short time, at the present rate, when production will be even less than the demands made upon furnaces by manufacturers. Indications how point to possibility that 1907 production may even fall short of 1906, whereas in October iron was being put out in the United States at the rate of 28,000,000 tons a year.

Furnace operators are of a unit in determining not to sell pig iron below the actual cost of manufacture, and all of this tends to steady industrial balances.

The coke business has been slight. There is a free offering of fuel and prices are easy. Production does not seem to be improving and plants at all points are running on smallest possible operating basis.

Matthew Addy & Co., Cincinnati, will say in their weekly report: There certainly is a more cheerful tone in the trade this week than has been the case recently. The absolute stagnation which has been prevailing in the matter of buying and selling has ceased and today there is a considerable inquiry and there has been some little purchasing. The purchasing has not been in any proportion at all to the demand, as for every thousand tons of iron asked for only about one hundred has been bought, but the demand in itself is significant. It shows that consumers are approaching the time when they will have to buy, and even if the inquiries which they are now sending out are in many cases merely requests for information, yet back of them is the stern business necessity which means that iron must be purchased or the plants will be compelled to shut down.

It is a very remarkable fact that this time when prices have declined there are no stocks of iron on hand. In other years great declines in price have been gradual and furnaces and consumers alike have gradually accumulated large quantities of iron in their yards, but on this occasion the slump came so suddenly and the necessity for retrenchment was so immediate that the furnaces did not stop to argue the matter. They simply made up enough iron to ship out the orders on their books and quit. So when demand springs up again there will be no large stock of iron in furnace yards to keep prices down or to retard the resumption of furnace activity. This is one of the most promising things we have found in the situation, and the more this feature of the case is studied the more encouraging does it appear.

Of course the iron business is not a law to itself. Its fate is inextricably combined with the ups and downs of general business, and the iron situation will not clear up until the money situation clears. But when money is normal once again the iron trade will be in fine shape for quick recovery.

# Current Hardware and Metal Prices.

**THE AMERICAN ARTISAN AND HARDWARE RECORD is the only publication containing western hardware and metal prices corrected weekly.**

## METALS.

### FIRST QUALITY BRIGHT PLATES.

| | | Per Box. |
|---|---|---|
| IC | 14x20 | $7 20 |
| IX | 14x20 | 8 25 |
| IXX | 14x20 | 9 40 |
| IXXX | 14x20 | 10 65 |
| IXXXX | 14x20 | 11 80 |
| IC | 20x28 | 14 50 |
| IX | 20x28 | 16 50 |
| IXX | 20x28 | 18 95 |
| IXXX | 20x28 | 21 35 |
| IXXXX | 20x28 | 23 75 |

### COKE PLATES.

| | | | |
|---|---|---|---|
| Cokes, 180 lbs | IC | 20x28 | $ 8 50 |
| Cokes, 200 lbs | IC | 20x28 | 9 00 |
| Cokes, 216 lbs | IC | 20x28 | 9 50 |
| Cokes, 270 lbs | IX | 20x28 | 11 25 |

### PIG IRON.

| | |
|---|---|
| Lake Sup. Charcoal | $26 00@$26 50 |
| North'n Fdy., No. 1 | 26 00@ 26 50 |
| North'n Fdy., No. 2 | 25 50@ 26 00 |
| North'n Fdy., No. 3 | 25 00@ 25 50 |
| Northern Scotch Fdy | 26 00@ 26 50 |
| Ohio Strong Softeners, No. 1 | 26 30 |
| Ohio Strong Softeners, No. 2 | 25 80 |
| Southern Fdy., No. 1 | 23 40@ 25 40 |
| Southern Fdy., No. 2 | 22 90@ 24 90 |
| Southern Fdy., No. 3 | 22 40@ 24 40 |
| Southern Fdy., No. 4 | 21 90@ 23 90 |
| Southern No. 1 Soft | 23 40@ 25 40 |
| Southern No. 2 Soft | 22 90@ 24 90 |
| Southern Gray Forge | 21 40@ 23 40 |
| Southern Mottled | 20 90@ 22 90 |
| Southern Silveries, 4 to 6 per cent Silicon | 27 40@ 29 40 |
| Jackson Co. Silveries, 8 to 10% Silicon | 31 40@ 33 40 |
| Ala. and Geo. Car Wheel | 28 40@ 28 90 |
| Malleable Bessemer | 25 50@ 26 50 |
| Standard Bessemer | 25 50@ 26 50 |
| Basic, Pittsburg | 22 85 |

### BLACK STEEL SHEETS.

| | | |
|---|---|---|
| Nos. 11-12 | per 100 lbs. | $2 60 |
| Nos. 13-14 | per 100 lbs. | 2 65 |
| Nos. 15-16 | per 100 lbs. | 2 70 |
| Nos. 17-21 | per 100 lbs. | 2 75 |
| Nos. 22-24 | per 100 lbs. | 2 80 |
| Nos. 25-26 | per 100 lbs. | 2 85 |
| No 27 | per 100 lbs. | 2 90 |
| No 28 | per 100 lbs. | 3 00 |

### GALVANIZED

| | | |
|---|---|---|
| Nos. 10-11 | per 100 lbs. | $3 15 |
| Nos. 12-14 | per 100 lbs. | 3 25 |
| Nos. 15-16 | per 100 lbs. | 3.25 |
| Nos. 17-21 | per 100 lbs. | 3 50 |
| Nos. 22-24 | per 100 lbs. | 3 65 |
| Nos. 25-26 | per 100 lbs. | 3 85 |
| No. 27 | per 100 lbs. | 4 05 |
| No. 28 | per 100 lbs. | 4 25 |

### POLISHED SHEET STEEL.

| | | |
|---|---|---|
| No. 24 | per 100 lbs | $4 90 |
| No. 26 | per 100 lbs. | 5 00 |
| No. 27 | per 100 lbs. | 5 10 |
| No. 28 | per 100 lbs. | 5.20 |

### SMOOTH STEEL.

| | | |
|---|---|---|
| Wood's Smooth, No. 20 | | $3 05 |
| " " | No. 22-24 | 3 10 |
| " " | No. 25-26 | 3 15 |
| " " | No. 27 | 3 20 |
| " " | No. 28 | 3 30 |

### PATENT PLANISHED SHEET IRON.

Patent Planished Sheet Iron, "A" $10.20, "B" $9 20

### PATENT PLANISHED SHEET STEEL.

Dickey Planished Sheet Steel ..... 8½c

### SOLDER.

| | |
|---|---|
| XXX Guaranteed ½ & ½ ... per lb. | 25½c |
| Commercial ½ & ½ ... per lb. | 25 c |
| No. 1 Plumbers | 24½c |

### SHEET ZINC.

| | |
|---|---|
| 500 lb. Casks ... case, per cwt. | $9 50 |
| 300 lb. Casks ... per cwt. | 9 50 |
| Sheets ... per cwt. | 10 50 |

### COPPER.

Copper sheet, 100 lbs. over, base ... 24c

### TIN PIGS AND BARS.

| | |
|---|---|
| Banca, pigs, per lb | 44 c |
| Straights, pigs, per lb | 44½c |
| Straights in bars, per lb | 47 c |

### LEAD.

| | |
|---|---|
| American Pig | 6½c |
| Bar | 7½c |
| National (White) brands (in less than 100 lb lots), per lb | 8½c |

*Sheet.*

| | |
|---|---|
| Full coils ... per 100 lbs. | $9 00 |
| Cut coils ... per 100 lbs. | 9 50 |

## HARDWARE.

### ADZES.

*Carpenters'.*

| | |
|---|---|
| Plumbs | 40% |

*Coopers'.*

| | |
|---|---|
| Barton's | 20% |
| White's | 15% |

*Railroad*

| | |
|---|---|
| Plumbs | 40% |

*Ship.*

| | |
|---|---|
| Plumbs | 40% |
| White's | 12½% |

### AMMUNITION.

*Caps, Percussion—per 1,000.*

| | |
|---|---|
| F. L Waterproof, 1-10s | 40c |
| G D | 35c |
| Musket | 60c |

*Shells, Loaded—*

| | |
|---|---|
| Loaded with Black Powder | 40% |
| Loaded with Smokeless Powder, medium grade | 40 & 5% |
| Loaded with Smokeless Powder, high grade | 40 & 10 & 10% |

Union Metallic Cartridge Co.:

| | |
|---|---|
| New Club, Black Powders | 40% |
| Nitro Club, Smokeless Powders, | 40 & 5% |
| Arrow, Smokeless Powders | 40 & 10 & 10% |

Winchester:

| | |
|---|---|
| Smokeless Repeater Grade | 40 & 5% |
| Smokeless Leader Grade | 40&10&10% |
| Black Powder | 40% |

*Gun Wads*—per 1,000.

| | |
|---|---|
| Winchester Gun Wads | 15% |

| *Powder* | | Each. |
|---|---|---|
| DuPont's Sporting, kegs | | $ 50 |
| " " | ½ kegs | 2 50 |
| " " | ¼ kegs | 1 40 |
| Dupont's Sm'k'less | 50-lb. drum | 22 45 |
| " " | 25-lb. kegs | 11 30 |
| " " | 12½-lb. kegs | 5 80 |
| " " | 6¼-lb. kegs | 2 97 |
| " | 1-lb. cans | 15 |

*Shot.*

| | |
|---|---|
| Drop shot, sizes smaller than B, 25-lb. bags, per bag | 1 95 |
| Drop shot, B and larger sizes, 25-lb. bags, per bag | 2 20 |
| Buck Shot, 25-lb. bags, per bag | 2 20 |
| Chilled Shot, 25-lb. bags, " | 2 20 |

### ANCHORS

Expansion Screw Anchors ..... 10%

### ANVILS

| | |
|---|---|
| Trenton, 70 to 80 lbs | 9½c per lb |
| Trenton, 81 to 150 lbs | 9¼c per lb |

### ASBESTOS.

Board and Paper ..... 25%

### AUGURS.

| | |
|---|---|
| *Boring Machine* | 70% |
| Irwin's | 40&10% |
| *Carpenter's Nut* | 70% |
| *Hollow.* | |
| Bonney's—list $30.00 | 75&5% |
| Stearns, No. 3 | 36 00 |
| *Post Hole.* | |
| Digwell, 8-inch ... per doz. | 12 50 |
| Iwan's Post Hole and Well | 40% |
| Vaughan's, 4 to 9-in., per doz. | 6 25 |
| *Rafting.* | |
| Snell's | 50&5% |
| *Ship.* | |
| Ford's, with or wi'out screw | 40-12½% |
| Snell's " " " | 40-5% |

### AWLS.

| | | |
|---|---|---|
| *Brad.* | | |
| No. 3 Handled ... per doz. | | $0 40 |
| No. 1050 Handled | " | 80 |
| Shouldered, assorted, 1 to 4, ... per gro. | | $1 20 |
| Patent asst'd, 1 to 4 | " | 85 |
| *Harness.* | | |
| Common | " | 95 |
| Patent | " | 90 |
| *Peg.* | | |
| Shouldered | " | 1 20 |
| Patent | " | 60 |
| *Scratch.* | | |
| No 1 handled | " | 4 80 |
| No. 15, socket handled per doz. | | 1 25 |
| No. 7 Stanley | | 1 80 |
| *Sewing.* | | |
| Common ... per gro. | | 90 |
| Patent | " | 90 |

### AXES.

| | | |
|---|---|---|
| *Boy's Handled.* | | |
| Lippincott, 3 lb ... per doz. | | $6 00 |
| Falls City | " | 6 00 |
| *Broad.* | | |
| Plumbs, West, Pat | | 33⅓% |
| " Can. Pat | | 40% |
| " Firemen's (handled) ... per doz | | $1, 75 |
| Plumbs, Miners' (handled) | " | 6 75 |
| *Single Bitted* (handled) | | |
| Gladiator . 3 to 4 lbs , per doz | | $11 00 |
| Flint Edge " " | " | 9 25 |
| Standard .. " " | " | 9 25 |
| Elec Chopper, Forest Clipper | | 10 50 |
| Perfect Premier " | " | 10 00 |
| Crown " | " | 7 00 |
| *Single Bitted* (without handles) | | |
| Gladiator ... 3 to 4 lbs. per doz. | | $8 50 |
| Flint Edge. " | " | 7 00 |
| Standard ... " | " | 7 00 |
| Electric Chopper" | " | 8 25 |
| Perfect ... " | " | 7 75 |
| Crown ... " | " | 6 25 |
| *Double Bitted* (without handles). | | |
| Gladiator ... 3 to 4 lbs. per doz. | | 11 50 |
| Flint Edge. " | " | 9 75 |
| Perfect ... " | " | 11 00 |

The above prices on axes of 3 to 4 lbs. are the base prices.

3½ to 4½ lbs advance 25c
4 to 5½ lbs. advance 50c.
4½ to 5½ lbs. advance 75c.

### BAGS, PAPER NAIL.

| | | | | |
|---|---|---|---|---|
| Pounds | 10 | 16 | 20 | 25 |
| Per 1,000 | $2.50 | 3.75 | 4.50 | 5.00 |

### BALANCES, SPRING.

| | |
|---|---|
| Frary's | 40% |
| Pelouze | 20% |

### BARS, CROW.

Pinch or Wedge Point ... per cwt. $3 75

### BASKETS.

| | | |
|---|---|---|
| *Clothes.* | | |
| Small Willow ... per doz. | | $7 00 |
| Medium " ... | " | 8 75 |
| Large " ... | " | 10 50 |
| *Galvanized Iron.* ½ bu. | 1 bu. | 1½ bu. |
| Per doz ... $4 75 | 6 50 | 8 00 |

### BEATERS.

| | | Per doz. |
|---|---|---|
| *Carpet.* | | |
| No. 10 Coppered Spring Wire | | $0 90 |
| No. 12 Spring Wire | | 1 10 |
| No. 10 Preston | | 1 10 |
| *Egg.* | | Per doz. |
| No. 50 Imp. Dover | | $0 75 |
| No. 102 " " | tinned | 85 |
| No. 150 " " | hotel | 1 40 |
| No. 10 Heavy hotel tinned | | 2 10 |
| No. 13 " " | " | 3 30 |
| No. 15 " " | " | 3 60 |
| No. 18 " " | " | 4 50 |

### BELLOWS.

| | | |
|---|---|---|
| *Blacksmiths'* | | 65% |
| *Hand.* | | |
| 8-inch | per doz. | $8 50 |
| 10-inch | " | 10 50 |
| *Moulders'.* | | |
| 12-inch | " | 12 50 |

### BELLS.

| | |
|---|---|
| *Call.* | |
| 3-inch Nickeled Rotary Bell, Bronzed base ... per doz. | $5 00 |
| *Cow.* | |
| High Grade | 60% |
| Kentucky | 65&10% |
| *Door.* | Per doz |
| New Departure Automatic | $6 00 |
| Rotary. | |
| 3 -in. Old Copper Bell | 4 00 |
| 3 -in. Old Copper Bell, fancy | 6 00 |
| 3 -in. Nickeled Steel Bell | 4 50 |
| 3½-in. Nickeled Steel Bell | 5 00 |
| *Hand.* | |
| Hand Bells, polished | 40&5% |
| White Metal | 40% |
| Nickel Plated | 30% |
| Swiss | 40&33⅓% |
| Silver Chime | 33⅓% |
| *Miscellaneous.* | |
| Church and School, steel alloy | 50% |

| Parm. lbs | 40 | 50 | 75 | 100 |
|---|---|---|---|---|
| Each | $1.25 | 1.60 | 2.35 | 2.85 |

### BEVELS, TEE

| | |
|---|---|
| Stanley's, rosewood handle, new list | 25% |
| Stanley's iron handle | 25% |

### BINDING, OILCLOTH.

| | |
|---|---|
| Zinc | 80% |
| Brass | 70&10% |
| Brass plated | 75&5% |

### BITS.

| | |
|---|---|
| *Auger.* | |
| Extra Double Spur | 70&10% |
| Ford's Car and Machine | 40&10% |
| Triumph | 50&5% |
| Ford's Ship | 40&10% |
| Irwin | 50% |
| Russell Jenning's | 25&10% |
| Clark's Expansive | 50% |
| Steer's " Small list, $22.00 | 25% |
| " " Large " $26.00 | 25% |
| Irwin Car | 45% |
| Ford's Ship Auger pattern Car | 40&10% |
| *Center* | 40&10% |

| | | |
|---|---|---|
| *Countersink.* | | |
| No. 18 Wheeler's ... per doz. | | $1 25 |
| No. 20 " —.— | " | 1 75 |
| AmericanSnail head | " | 75 |
| " Rose " | " | 90 |
| " Flat | " | 75 |
| Mayhew's Flat | " | 1 25 |
| " Snail | " | 1 25 |
| *Dowell.* | | |
| New Jennings | | 40&10% |
| *Gimlet.* | | |
| Standard Double Cut | | 60% |
| German Pattern ... per doz. | | $0 60 |
| German | " | 65 |
| Gouge | " | 90 |
| Spoon | " | 80 |
| Countersink | " | 1 00 |
| *Reamer.* | | |
| Jenning's Square | " | 2 50 |
| Standard Square | " | 75 |
| German Octagon | " | 75 |
| *Screw Driver.* | | |
| No. 7 Commor | " | 50 |
| No. 1 Triumph | " | 1 25 |
| No. 2 | " | 1 — |
| No. 340 Shepardson's | " | — — |
| No. 1 Smith's | " | — — |

BLACKING, STOVE. (See Polish).

BLADES, SAW.

*Butchers'.*
Standard, ¾ & 1¼-in.....40%
Clock Spring.....40%
Star.....15%
Coil.....each, $1 50
*Hack.*
Disston's.....25&5%
Flexible.....33⅓&5%
Star.....20&5%
*Wood.*
Jackson's.....per doz. $2 25
Disston's—No. 6, 16, 26 & 045.. 4 25
Triumph..... 3 50
Forest Clipper..... 3 00

BLOCKS.

*Snatch.*
Wooden.....60&10%
Steel.....50%
*Tackle.*
Iron Strapped.....70%
Com. Steel.....60%

BOARDS.

*Stove*.....40%
*Wash.*
Globe, single.....per doz. $3 15
Globe, double..... " 3 65
Magnolia..... " 3 55
Crystal Glass..... " 4 35
Brass King..... " 4 50
Nickel Plate..... " 4 15
Enamel King..... " 4 35

BOBS, PLUMB.

*Carpenters'.*
No. 2, iron.....per doz. $0 65
No. 00, " ..... " 1 30
No. 0, " ..... " 1 80
No. 3, lead..... " 2 90
No. 4, " ..... " 3 40
No. 113, brass plated.. " 1 10
No. N30, nickel plat'd. " 1 30
No. N31, " " " 1 85

BOLTS.

*Carriage, Machine, etc.*
Carriage, ¾x6 and sizes smaller and shorter.....70%
Carriage, sizes larger and longer than ¾x6.....50-10&5%
Machine, ¾x4 add sizes smaller and shorter.....70%
Machine, sizes larger and longer than ¾x¾x4.....60%
Elevator.....50-10&5%
Plow.....60&10%
Stove.....80%
Tire.....75%
Wagon Box Strap.....70%
*Mortis, Door.*
Gem, iron.....60%
Gem, bronze plated.....20%
*Barrel.*
Cast.....60%
Wrought.....
Wrought, bronzed.....50%
*Flush.*
Wrought.....50&10%
*Spring.*
Wrought.....
Wrought, heavy.....
*Square.*
Cast.....50&10%
Wrought.....

BORERS.

*Angular.*
Miller's Falls.....per doz. $13 00
*Bung.*
Doz.
Enterprise Mfg. Co.'s No 1... $14 00
" " " No 2... 18 50

BOXES

*Mail*, No..... 1 2 10
Per doz.....$3.50 5.50 17.50
*Miter.*
New Langdon.....15&5%
Stanley's.....50%
Seavey's.....each, $1 50

BRACES.

Barber's.....50&10&10@50&10&15%
Fray's Genuine Spofford's.....60%
" Nos. 66 to 146.....50%
" No. 0108..... $3 50
" No. 08..... 2 75
" No. 010..... 2 85

BRACKETS.

*Hay-Rack.*
Wenzelmann's No. 1, per doz. $9 00
" No. 2, " 9 60
*Shelf.*
Cast Iron, bronzed.....50-10&5%
Griffin Wrought Steel.....70&10%
Griffin Folding.....70%

BROILERS.

Wire.....70%
No. Cwron, Self-basting, 80dos .. $2 50

BUCKETS.

*Pump, Rubber.*
Wychoff.....per gro. $4 75
Cooper..... " 4 75
Champion..... " 7 50
Victor..... " 9 25
Star..... " 5 00
IXL..... " 6 75
*Well.*
Galv'd Qts..... 10 12 14
Per doz.....$2.90 $3.25 $3.40
Wooden, top ear, plain, per doz. 4 00
" " swivel, " 5 10

BUCKS, SAW.

Folding.....per doz. $2 10

BURRS, RIVETING.

Copper Burrs only.....20%
Tinners' Iron Burrs only.....65&5%

BUTTS.

*Cast Iron*.....70&5%.
*Wrought Brass* (New List).....20%
*Wrought Steel, Bright.*
*Wrought Steel, Japanned.*
Nos. 731 and - .....20%

CALIPERS.

Double.....65&5%
Inside and Outside.....65&5%
Wing.....70%

CALKS.

*Logger's Boot.*
(Lufkin R. Co.'s), per M..... $3 75
*Toe.*
Shoenberger.....per lb 5 c
Bessemer..... " 4½c
American..... " 7 c
Swedes..... " 8½c

CANS.

*Cheese Factory.*
Ontario Pattern.
Gallons..... 20 30 40
Each..... $4.25 $5.00 $6.25
*Milk.*
Holstein.
Nos..... 300 301 302
Gals..... 5 8 10
Per doz.....$26.00 $27.00 $29.00
Chicago Pattern.
Nos..... 105 108 110
Per doz.....$20.00 $22.50 $24.00
Iowa Pattern.
Nos..... 408 410
Per doz..... $24.50 $25.50
New Elgin Pattern.
Nos ..... 705 708 710
Per doz.....$27.00 $29.00 $30.50
Burn Pattern
Nos..... 700 701
Gals..... 8 10
Price..... $2.40 $2.65

CAN OPENERS.

See Openers.

CAPS, GUN.

See Ammunition.

CARPET STRETCHERS.

See Stretchers.

CARRIERS.

*Hay.*
Diamond, Regular.....each, $3 85
Diamond, Sling..... " 6 50
Myers' Imperial ..... " 3 85
Myers' Clover Leaf..... " 4 00

CARTRIDGES.

See Ammunition.

CASTERS.

*Standard*—Ball Bearing.....50&10%
*Bed*.....60&5%
*Common Plate.*
Brass Wheel.....60&10%
Iron and porcelain wheels, new list.....60&5%
Philadelphia Plate, new list.....70%
Martin's.....60%
Payson's.....75&10%

CATCHERS, GRASS.

Carroll's, No. C.....per doz. $4 25
Wildermuth's,.
Nos..... 1 2 3
Per doz.....$5.60 $5.75 $6.25
Nos..... 4 5 6
Per doz.....$6.75 $9.50 $10.00

CHAIN AND CHAINS.

*Breast Chains.*
Doubleslack.....doz. pairs, $5 75
With Covert Snaps. " 5 00
With Slide..... " 3 25
Without Slide..... " 2 85
*Bright Ox Chains.*
½-in. $7.25; ⅜-in. $5.45 per 100 lbs.

*Cable Coil Chain.*
Inch..... 5/16 ⅜ 7/16 ½
Per 100 lbs.$10.80 $8.00 $7.00 $6.20
Inch..... 7/16 ½ ⅝ ¾
Per 100 lbs.$6.00 $5.90 $5.75 $5.65
Inch..... ⅞ 1 1¼
Per 100 lbs.....$5.55 $5.55 $5.65
*Cable Log Chain.*
Advance 25c per 100 lb. on Cable Coil.
*Cow Tie Chains.*
American, 2 toggle.....50&5%
" toggle and snap...50&5%
" open and closed ring.....50&5%
*Halter Chains.*
American, new list.....33⅓%
German.....50&10&5%
Niagara, new list .....40%
Brown's, " .....40%
*Picture Chains.*
Light Brass, 3 ft.....per doz. $0 65
Heavy Brass, 3 ft .... " 1 00
*Pump Chain*
Galvanized, per 100 lbs.....$5 50
*Safety Chain.*
Brass.....50%
*Special Steel Loading Chain.*
Inch..... ½ 9/16 5/8
Per 100 lbs.....$16.00 $13.50 $12.50
*Stretcher Chains*
7/16-in. $8.50; ½-in. $7.75 per 100 lbs.
*Tie-Out Chains.*
Brown's.....70&5%
*Trace Chains.*
Western Standard.
6½— 6-2.....per pair 30c
6½— 8-2..... " 34c
6½— 8-3..... " 32c
6½—10-2..... " 38c
7 — 8-2..... " 38c
7 —10-2..... " 42c
7 —10-1..... " 48c
7 —10-0..... " 60c
Add 2c per pair for Hooks.
Add 2c for Twist Link.
*Wagon Stay Chains.*
Inch..... ½ 7/16 ⅝
Per 100 lbs.....$6.50 $6.00 $5.50

CHALK, CARPENTERS'.

Blue.....per gro. 75c
Red..... " 65c
White..... " 55c
Common White School Crayon..... " 8c

CHARCOAL.

In bags.....per bag 90c

CHECKS, DOOR.

Blount.....33⅓%
Sargent's.....33⅓%

CHIMNEY TOPS.

Iwan's Volcano.....50%

CHISELS.

*Box.*
Inches..... 10 12 14
Round per doz....$2.10 $2.25 $2.75
Flat " ... 2.85 3.60 4.20
*Cold.*
Good quality, ¾ in. and larger.....per lb. .12c
Smaller size per doz.....
*Socket, Framing and Firmer.*
Barton's.....20%
*Tanged, Firmer.*
With handles.....30&5%
*Choppers*, See *Cutters, Meat.*

CHUCKS, DRILL.

Goodell's, for Goodell's Screw Drivers.....per doz. $6 25
Yankee, for Yankee Screw Drivers..... 5 00

CHURNS.

Anti-Bent Wood,
Gal..... 5 7 10
Each.....$3.90 $4.60 $4.85
Belle, Barrel.....65&7½%
Common Dash, Gal. 4 5 6
Per doz..... $7.75 $8.50 $10.50
Union, Gal..... 5 7 10
Each.....$3.65 $3.90 $4.75

CLAMPS.

*Adjustable.*
Martin's.....30%
*Carpenters'.*
Steel Bar.....25%
*Hose.*
Sherman's, brass, ¾-in., per doz.. 42c
Double, brass, ¾-in., " 90c
*Saw Filers.*
Disston's list, $30.00.....30%
Stearns', No. 0, $3.50; No. 1, $11.50; No. 3, $5.00 doz.
Wentworth's, No. 1, $6.00; No. 3 $7.50.

CLAWS, TACK.

Cast, wood hdle.....per doz.45@60c
Forged steel, wood hdle " $0.80
Solid steel..... " 1 00
Giant..... " 60

CLEANERS.

*Drain.*
Iwan's Adjustable.....55%
Iwan's Stationary.....40&5%
*Pot.*
Wire.....per doz. $0 55
*Side-Walk.*
Steel.....per doz. $3 25
XLCR .....65&5%

CLEAVERS

*Family.*
Griffin, Inch..... 6 7 8
Per doz.....$5.50 $5.75 $6.25
Royal.....per doz. 2 25
*Butchers.*
Beattys, Kitchen .....40%

CLEVISES

Malleable .....5½c lb.

CLIPPERS.

Bolt.....$1.90@4.75

CLIPS.

*Axle*.....65&5%
*Damper.*
Standard.....per doz. 65c
Troy..... " 38c
*Hame*..... " 17

CLOTH.

*Emery.*
Star.....50%
B. & A.....50%
*Hardware Wire*—full rolls (100 ft.)
2 to 8 mesh, black, per 100 sq. ft..... $2 50
9 to 12 mesh, black, per 100 sq. ft..... 2 50
2 to 3 incl., Galv.—in full roll... 4 50
4 and 5..... " .. 4 75
6..... " .. 5 00
7 and 8..... " .. 5 50
*Screen Wire.*
12 mesh, painted, per 100 sq. ft.. 1 25

COCKS AND FAUCETS.

Compression Plain Bibbs.....60%
Lever Bibb Cocks.....60%
Compression Hose Bibbs ..50—10&5%
Telegraph Faucets (new list)..50—5%
Racking Cocks (new list).....60%
Compression Lock C'ks(new list).70%
Andrew's Brass Faucets.....70%
Angle Plug Faucets, per doz....$0 85
Milk Can Faucets, per doz..$2.60-4.20
Petroleum Faucets.....75%

COLLARS, STOVE PIPE.

Inches..... 5 6 7
*Plain Tin*..per gro.$1.90 $2.40 $3.50
*Japanned Tin* " 3.00 3.00 4.25
*Lacquered Brass*" 3.00 5.50 4.25

COMBS, CURRY.

Nos... 000 11 15 30 50 108
Per Doz..$.37 .60 1.20 .90 1.15 .80
Nos... 200 220 390 532 620 1400
Per Doz.$1.05 .85 1.35 1.20 .75 1.40

COMPASSES.

*Carpenters'*.....60—10—10%
*Pencil*—Faber's.....per doz. $1.00

COPPER—See Metals.

COPPERS.

*Soldering.*
1 lb.....per lb 32c
1½ lb.....33c 2 lb... " 31c
3 lb and larger..... " 28c

CORD.

*Picture*
White Wire (new list).....85&5%
*Sash.*
Baltic Braided Flax.....per lb.
Silver Lake, white, 7-32 in. "
Silver Lake, white, 8-32 in. "
Keystone.....8-32 in. " 29c

CORKSCREWS.

Humason & Beckley.....33⅓%
Walker's.....33⅓%
Williamson's Regular.....40&10%
Williamson's Forged Worm.....50%

COTTERS, SPRING.

All sizes—new list.....90&20%

COUPLINGS, HOSE.

Brass.....per doz. $
Brass Plated..... " 85

COVERS, WAGON—See Tents.

CRADLES, GRAIN.

Morgan's Grapevine....per doz.$22 75

CRAYONS—See Chalk.

CROW BARS.

inch or Wedge Point.....per lb 3½c

CUTTERS.

*Glass.*
Red Devil.....45%
Smith & Hemenway Co.....50%
Woodward.....40%
*Meat.*
Enterprise, Nos. 5, 10, 12, 22, 32 and 42.....25%
No. 202, list, $1.50 ea.....40&7½%
*Pipe.*
Stanwoods.No.... 1 2 3
Each.....$0.85 $1.50 $4.00
*Slaw and Crout.*
3-knife Crout.....per doz. $9 75
1-knife Slaw..... " 1 65
2-knife Slaw..... " 2 25
*Washer*..... " 7 75

DAMPERS, STOVE PIPE.

Standard.....50%
American.....45%
American.....45%

DIES AND STOCKS.

Discount.....40%
King's, Little Giant.....33⅓%

DIGGERS.

*Post Hole.*
Acme.....per doz. $9 25
Atlas..... " 9 00
Eureka..... " 7 50
Hercules..... " 10 25
Iwan's Split Handle.. " 7 50
Iwan's Perfection.... " 9 00
Iwan's Hercules pattern " 10 00
Ryan's..... " 17 00
See also Augers—Post Hole.
Dividers, Wing.....65&10%

DOOR CHECKS—See Door.

DOORS, SCREEN.

⅞ in. 4-panel, painted...per doz. $7 93
1⅛ in. 4-panel, painted... " 9 50
1⅛ in. 3-panel, natural pine, fancy..... " 12 40

DOOR HANGERS—See Hangers.

DRILLS.

*Bit Stock*.....60&10%
*Blacksmith's Twist*.....60%
*Breast.*
Common.....each, $2 25
Millers Falls..... " 2 10
*Hand.*
Goodell's Automatic.
Nos..... 01 03 3 20
Per doz.. $7.75 $12 50 $12.50 $11.00
Goodell's Single Gear.per doz. 15 75
Millers' Falls " " " 12 75
" " Double " " 15 25
*Reciprocating.*
Goodell's.....per doz, 16 50
*Bit Stock.*
Standard List..60&5%@60%@10

DRIVERS, SCREW.

Standard.....65&10%
Lock Ferrule.....60%
Champion.....40&10%
Champion Pattern.....70%
Clark's Interchangeable.....30%
Edison.....60%
Reed's Lightning.....45&5%
Goodell's Spiral.....50, 10, 5&2½%
Yankee Ratchet .....50%
" " Spiral.....50&10%
Smith & Hemenway Co.....40&5%

EAVES TROUGH, GALVANIZED.

Territory. L. C. L.
Eastern.....75&5%
Central.....75&10%
Southern.....75%
Western.....75%
S. Western.....70&10%
Terms, 2% for cash. Factory shipments generally delivered.
See also conductor pipe and elbows.

EGG BEATERS—See Beaters.

ELBOWS.

*Adjustable Stove.*
Inches..... 5 6 7
Smooth, per doz...$0.75 $0.85 $1.20
Plan'd, " 1.80 2.00 2.65
*Corrugated Conductor.*
Discount.....75&10%
*Corrugated Stove.*
Inches..... 5 6 7
Smooth, per doz..$0.85 $1.00 $1.50
Pol'd, " .. 1.40 1.65 2.25
Plan'd, " .. 2.15 2.65 3.40
*Four-Piece Stove.*
Inches..... 5 6 7
Smooth, per doz..$0.60 $0.65 $0.95
Planished, " .. 1.40 1.70 2.30

EMERY CLOTH—See Cloth.

EMERY TURKISH.

Size .....5-lb. pkgs. ½ kegs, kegs
No 60 to 150, per lb.. 4c 4c
Flour..... " ... 5c 3c 3c

ENAMEL, IRON.

Nubian, ½-pt. cans.....per doz. 1 65
Peerless..... 1 25

EXTRACTORS, PIG.

See Forceps, Pig.

EYES.

*Bright Wire Screw*—See Goods, B. W.
*Drifting Pick*.....60, 10&5%
*Hooks and—*
Brass.....50&10%
Iron.....70%

FASTENERS, STORM SASH.

Schroeder's.....per doz. $0.85
Sensible..... " 1 15

FAUCETS—See Cocks.

FILES AND RASPS.

Delta.....70%
Kearney & Foot.....75&10%

FLUE STOPPERS—See Stoppers.

FORCEPS, PIG.

Superior.....per doz. $4 75
Whisson's Imp..... " 5 25

FORKS.

These goods are sold net this year.
*Barley.*
Steel New List.....65&10%
Wood, 4-tines, per doz.....$5 00
*Coal, Coke, Cottonseed*.....30%
*Hay.*
2-tine.....60%
3 " .....60&5%
4 " .....60&10%
Digging.. .....65&5%
Scoop.....30%
*Header.*
3-tine.....60&5%
4 " .....60&5%
*Manure.*
4-tine .....60%
*Ore*.....40%
*Spading.*

FRAMES.

*Hack Saw.*
Union.....per doz. $5 75
Jenning's adj..... " 7 50
Cast..... " 2 50

FREEZERS, ICE CREAM.

*Arctic.*
Qts..... 1 2 3 4 6
Each...$1.10 1.30 1.50 1.80 2.30
Qts..... 8 10 12 15
Each.....$2.95 3.80 4.50 5.20
*White Mountain.*
20 qt., New Platform....each, $19 10
25 qt., " " " 22 60
25 qt., Sampson Power, " 43 50
40 qt., " " " 58 25

GAUGES.

*Butt and Rabbet.*
*Cream Pail.*
Fairmont.....per doz. $3 75
*Marking, Mortise, etc*.....
.....50&10%
*Saw.*
*Wire.*
Disston's.....25%

GIMLETS.

Discount.....35@40%

GLASS, WINDOW.

Single.....90%
Double.....90&10%

GLASSES, LEVEL.

GLUE.

*Bulk.*
B Amber.....per lb. 12 c
A White..... " 15 c
H. S. Amber..... " 16½c
*Liquid.*
Army & Navy.....40%
Le Page's—
List "A".....37½%
List "B".....33⅓%
List "C".....25%

GOODS.

*Bright Wire*.....85&15%

GREASE, AXLE.

*Wood Boxes.*
Diamond.....per gro. $5 50
Frazer's..... 9 50
Hub Lightning..... 5 25
Paragon..... 6 75
*Wood Pails.*
Frazer's, 15 lb. 80c; 25 lb. $1.30 each.
Hub Lightning, 15 lb. 55c; 25 lb. 70c each.
*Tin Cans.*
Chamellene Graphite.
1 lb. per gross.....$9 50
3 lb. per gross.....25 00
5 lb. per gross.....37 00

GRIDDLES.

*Soapstone*.....33⅓%

GRINDSTONES.

*Family.*
Inches..... 7 8 9
Per doz.....$8.25 9.00 10.50
*Loose.*
Per ton.....$20 00@$21 00
*Mounted.*
Ball Bearing..... 1 2 3
Each.....$3.15 3.00 2.85
Common Bearing ..... 1 2 3
Each.....$3.00 2.80 2.65

GUN WADS
(See Ammunition.)

HAFTS, AWL.

*Brad.*
Common.....per doz. $0 19
*Peg.*
Common..... " 22
Patent, plain top..... " 47
Patent, leather top... " 52
*Sewing.*
Common..... " 22
Patent..... " 52

HALTERS.

Jute Rope.....per doz. $1 10
Sisal Rope..... " 1 85
Web..... " 2 00
Leather, rope tie..... " 8 50
Leather, leather tie..... " 11 50

HAMMERS, HANDLED.

*Blacksmiths' Hand.*
Plumbs.....60&5%
*Engineers'.*
Plumbs.....60&5%
*Farriers'.*
Plumbs.....40&10%
*Machinists'.*
Plumbs.....60&5%
*Nail.*
Plumbs.....40&7½%
Quaker City.....per doz. $3 50
Cast..... " 1 15
Maydole's.....30&5%
*Riveting.*
Plumbs.....40&12½%
*Shoe.*
Cast.....per doz. $0 75
*Tack.*
All Iron.....per doz. $0 35
Pol'd Iron, Hickory hdl. " 50
Mall. Iron, Inlaid..... " 1 55
Magnetic..... 1 2 3
Per doz.....$0.70 .80 1.00
Magazine.. .....per dos. 4 75

HAMMERS, HEAVY.

*Heavy Hammers and Sledges.*
Under 5 lbs .....75&5%
5 lbs. and over.....75-10&5%
*Masons'.*
Single and Double Face.....75&5%

HANDLES.

*Auger.*
Common Assorted....per doz. $0 38
Peck's Adjustable.... " 2 10
Ives' Adjustable.....per set, 1 35
*Axe*.....60%
*Chisel.*
Hickory, Tanged Firmer, Assorted, 33c; Large, 38c per doz.
Hickory, Socket Firmer, Assorted, 27c; Large, 30c per doz.
Applewood, Tanged, Firmer, Assorted, 29c; Large, 28c per doz.
Applewood, Socket, Firmer, Assorted .....per doz $0 24
*Cool Pick*.....50&10%
*Drift ng Pick*.....50&10%
*File*, assorted, 13c; Large, 16c per doz.
*Hammer.*
Adze Eye.....per doz. $0 40
Blacksmiths'..... " 40c@70c
Machinists'..... " 45c@70c
*Hatchet*..... " 40
*Hay and Manure Fork*.....30%
*Hoe and Rake*.....30%
Plain.....per dos. $0 75
Varnished..... " 80
*Screw Driver.*
Assorted..... " 37
Large..... " 48
*Shovel and Spade*.....33⅓%

HANGERS.

*Barn Door.*
Nansen.....60&10%
Matchless.....70&10%
Storm King.....60%
World's Best.....50%
Wagner's Adjustable.....70&10%
Warehouse.....60%
*Conductor P.*
Griffin.....70&10%
Iwan's Perfection.....50%
*Eave Trough.*
Baker's.....per gro. $2 35
Imperial.....20%
Wire.....33⅓%
*Parlor Door.*
Acme.....per set, $3 75
Ives' Improved..... " 2 50
Lane's Standard..... " 3 50
Lane's New Model.... " 3 10
Le Roy Noiseless..... " 4 00
Richards'.....40-10&5%

HASPS.

Hinge, Wrought.....40%
With Staples—See Staples.

HATCHETS.

Crown.....50-10&5%
Cast Claw.....per dos. $1 20@1 45
Cast Shingling.... " $0 95@1 20
Germantown.....40%
Plumbs.....33⅓&5%

HAY KNIVES.

See Knives.

HAY RACK BRACKETS.

Wenzleman's No. 1.....per dos. $9 00
Wenzleman's No. 2..... " 9 00

HINGES.

*Blind.*
Clark's Gravity ... per doz. sets, 95c
Parker's.....65%
Shepherd's Noiseless, for Wood Casing.....per dos $1 05
*Gate.*
Clark's..... 1 2 3
Hgs & Ltch. . doz. $2.50 2.90 4.00
Hinges only... " 1.00 2.20
Latches only . " .70 .75
Knuckle.....per doz prs. $6 00
Leed's..... " sets 6 75
Superior..... " prs. 9 50
*Spring.*
American.....20%
Chicago.....25&5%
Columbia Dbl. Acting....40&10&5%
Gem.....25%
Ideal Detachable.....per gro. $11
Matchless.....30%
New Idea.....per gro. $8 00
Oxford.....20%
*Wrought Iron*
New Lists .....
*Griffin*
Light Strap Hinges.....60%
Heavy Strap Hinges.....65%
Light T Hinges.....55%
Heavy T Hinges.....45%
Extra Heavy T Hinges.....60%
*Screw Hook and Strap.*
6 to 12 in.....per 100 lbs. $3 75
14 to 20 in..... " " 3 65
22 to 36 in..... " " 3 40
*Screw Hook and Eye.*
⅞ in.....per 100 lbs. $6 75
⅝ in..... " " 7 75
½ in..... " " 9 75

HOES

Garden .....70&10%
*Grub,*
Extra.....70%
Hazel.....per doz. $5 00
Ladies' and Boys'.....75%
Mortar.....75&10%
Planter's Eye.....62½%
Weed.....75&15%

HOLLOW WARE—See Ware.

HOOKS.

*And Eyes.*
Brass.....50&10%
Iron.....65&10%
*Awning*.....per gro. $1 00
*Belt.*
Brown's.....70&5%
Jones'.....65&5%
*Bench.*
See Stops, Bench.

*Box.*
Inch..... 6 8 10 12
Per doz.....$1.35 1.65 1.75 2.30
Humason & Beckley's..per doz. $2 50
(See Goods, Bright Wire.)
*Bush.*
Common Axe Handle.per doz. $7 00
*Chain.*
Inch..... ¼&5/16 ⅜ 7/16 ½
Per 100...$7.00-8.10 9.75 11.50 12.00
*Clothes Lines.*
Japanned .....per doz 22c@24c
Galvanized..... " 40c
*Coat and Hat*
Cast Iron .... per gro. 72c@$1 50
Gem Wire.....70%
*Conductor.*
Malleable .... 50&10% @50&10&5%
Wrought .. .... 40&10% @50%
*Corn.*
Common, unpolished, per doz. $1 35
Common, polished.... " 1 80
"Cut Easy"..... " 2 75
*Gate.*
See Goods, Bright Wire.
*Grass.*
Common. Nos..... 2 3 1
Per doz.....$1.50 1.00 1.70
German,.....per doz. 1 75
Little Giant..... " 2 75
*Hammock.*
With plate.....per doz. 50
With screw..... " 45
*Lambrequin*, or Drapery, per gro. .21c
*Picture*.....50% @50&10%
*Potato and Manure*.....70&12½%
*Screw.*
Brass.....80&5%
(See Goods, Bright Wire.)
*Seat Spring* .....per lb. 5½c

HOOPS, TUB.

Elastic ... per case of 2 doz.... $1 50

HOSE, GARDEN.

| | | Coupled. per ft. |
|---|---|---|
| Heron, 3 ply-¾" guar. press | 55 lbs. | 7½c |
| Crane.. " " " | 75 " | 8½c |
| Falcon " " " | 95 " | 9½c |
| Eagle " " " | 120 " | 10½c |
| Condor " " " | 150 " | 11½c |
| High Test " " " | 200 " | 12½c |

COTTON COV. RUBBER HOSE.

| | | |
|---|---|---|
| High Grade-¾"-guar. press. | 400 lbs. | 11½ |
| Special " " " | 300 " | 9½c |
| Leader " " " | 100 " | 7½c |

HUSKERS.

*Boss.*
Nos..... B BB E 200
Per doz.....$2.00 2.00 1.75 .80
Nos..... L PP P K
Per gro.....$5.40 6.00 6.00 10.50
Nos..... 2000 3000 O
Per gro.....$3.50 9.00 24.50
Nos..... 60 59 64 68
Per doz.....$2.15 2.15 .85 1.45
*Brinkerhoff's.*
Per gro.....$14 40
*Clark's.*
No..... 1 63 200 400
Per doz.....$0.40 .75 .75 1.75
Nos..... 200s 40s 3s 4s
Per doz..... $0.85 .50 1.25 1.25
Nos..... A AB F
Per doz.....$3.00 $4.25 $2.50

IRON.

See Metals.—First column.

IRONS.

*Curling.*
X.....per doz. $0 40
Y..... " 50
Z..... " 58
Jewel..... " 85
Imperial..... " 1 00
*Pinking*..... " 70
*Plane.*
Wood Bench.....20&5%
*Sad.*
Charcoal.....per doz.$11 00
Common, polished, per 100 lb. 4 50
Common, nickel plated, 5 25
Chinese Polishing.....per doz. 7 40
Laundry, No. 1..... " 5 75
Laundry, No. 2..... " 6 25
Mrs. Pott's,
No. 50 J, Enterprise, per set 93
No. 55 J. " " 90
No. 50 T. " " 1 00
No. 55 T. " " 96
No. 50, Bless & Drake " 93
No. 55, " " 99
Tailors' Sad.....per lb. 5½
Tailors' Geese..... " 5½
*Tuyere.*
Single Duck Nest.....per doz $5 25
Double Duck Nest .. " 6 25
Sutton.....each.... 2 60

JACKS.

*Locomotive*.....70%
*Wagon.*
Oliver,
Nos..... 0 00
Each.....$0.60 $0.80
Standard.
Nos..... 1 2
Each.....$0.60 1.00
Wilcox.
Nos..... 1 2 3
Each..... $0.85 1.20 2.90

KETTLES.

Brass.....15%
Cauldron.....40&5%
Copper..... per lb., 27c
Maslin.....65%
Sugar.....50%

KNIVES.

*Beet Topping.*
Clyde, 9-in. Scimiter Blade, doz.$3 85
California..... 3 40
*Cooper's Hoop*.....15%
*Corn.*
Clipper.....per doz. $1 75
Disston's..... " 2 75
Earle's..... " 3 00
Woodford..... " 2 25
*Drawing.*
Standard.....70%
Adjustable.....15%
Barton's Carpenters' .....10%
Folding Handle.....25&5%
*Hay.*
American, Sickle Edge...doz. $10 50
Canton, Sickle Edge..... " 8 25
Heath's..... " 8 00
Iwan's, Sickle Edge..... " 9 50
Iwan's, Impv'd Serrated . " 10 00
Lightn'g, Holt's Genuine. " 6 50
Lightning Pattern..... " 6 00
Wadsworth's Sp'r Point.. " 8 50
*Hedge.*
Challenge.....per doz. $6 00
Disston's..... " 3 75
*Mincing.*
Common, Single..... " 40
Common, Double..... " 50
Streeter, 4-Blade..... " 1 20
Streeter, 6-Blade..... " 2 00
*Putty.*
Common.....per doz. $0 60@1 00
Lander'r..... " 1 40@1 75
*Scraping.*
Beech Handle..... 75@1 00
Lander's..... 5 25@6 00

KNOBS.

*Door.*
**Mineral**.....**per doz. $0 80**
Porcelain..... " 90
Jet..... " 90

LADDERS.

*Common Long.*
Per ft.....9c@14c
*Extension.*
Per ft.....14c
*Step.*
Common, per ft.....7½c
Common, with Shelf, add 10c.
Keystone.....15c
Triumph, per ft.....20c

LANTERNS.

*Bull's Eye Police.*
3 -in. Flash Light....per doz. $6 00
2¾-in. Regular..... " 4 90
3 -in. Regular..... " 5 50
*Tubular.*
Buhl . . . . . .net prices.

LEADERS, CATTLE.

Nos..... 1 2 3
Per doz..... $0 55 .70 2.75

LEATHER, LACE.

*Cut*.....33⅓%
*Sides.*
Ex. Quality ..... per sq. ft., 27

LEATHERS, PUMP.

Valve and Plunger.....10%

LIFTERS.

*Stove Cover.*
Coppered.....per gro. 1 75@3 65
Ideal..... " 5 50
Alaska, Coppered " 4 00
Alaska, Nickeled. " 5 00
*Transom.*
Payson's.....80%

LINES.

*Chalk.*
Twisted in 20-ft. hanks.
Nos.... 4 6 7 8 9
Gross...$1.50 2 00 2 25 2 50 3 00
Twisted in 50-ft. balls.
Nos..... 1 2 3 4
Per doz.....25c 30c 35c 41c
Braided in 20-ft. hanks.
Nos..... 0 1 2 3
Per doz.....22c 25c 31c 35c
Mansons', in 100-ft. hanks...doz. 80c
*Clothes.*
60-ft. Jute.....per doz. $0 95
72-ft. Jute..... " 1 15
60-ft. Sisal..... " 1 40
72-ft. Sisal..... " 2 15
50-ft. Cotton..... " 1 15
50-ft. Braided Cotton. " 25

LINING, STOVE.

**In Bricks** .....**per crate, 42c**

MACHINES.

| *Boring.* | Without Augers | With Augers |
|---|---|---|
| Angular.....per doz. | 3 00 | 4 40 |
| Upright..... " | 2 60 | 4 00 |
| *Leather Riveting.* | | |
| Chicago, Pomeroy....per doz. | | $9 00 |
| Excelsior..... " | | 2 00 |
| Handy..... " | | 2 00 |
| Little Giant..... " | | 3 00 |
| Pony, Pomeroy..... " | | 7 20 |
| *Washing.* | | |
| Winner.....per doz. | | 54 00 |
| Keystone..... " | | 54 00 |
| U. S. Steel..... " | | 60 00 |
| Advance, f.o.b.Chicago " | | 24 50 |

MAIL BOXES.

See Boxes.

MALLETS.

*Carpenters'.*
Fibre Head, Small....per doz. $5 00
" " Medium. " 5 75
" " Large... " 7 00
Round Hickory..... " 2 25
" Lignumvitæ... " 4 00
Square Hickory..... " 2 25
" Lignumvitæ... " 4 50
*Tinners'.*
Applewood..... " 1 70
Hickory..... " 1.00@1 50
Hickory Sheet Iron... " 1 50

MATS

*Door*
National Rigid.....50, 10&5%
Acme Steel Flexible.....33⅓%
*Stove.*
No. 2.....per gro. $3 25
No. 1..... " 3 50
No. 1 Asbestos Toasters, or wire-covered Stove Mats, with handle.....per doz. 1 10
No. 2 Asbestos Toasters, with ring.....per doz. 60

MATTOCKS.

Plumbs.....65&10%
Extra.....60%

MAULS.

Iron, lbs..... 10 12 16 18
Per doz.... $4.00 4.50 5.25 5.60
Wood face, lbs..... 10 12 14
Per doz..... $5.00 5.50 6.00
*Wood Choppers'.*
Lake Super'r & Oregon Pat. 75&10%

MEASURES.

| | ½ pk. | 1 pk. | bu. |
|---|---|---|---|
| Galvanized, per doz. | $2.25 | 3.00 | 3.85 |
| Japanned.. " | 1.75 | 2.45 | 3.15 |

MICA.

First Quality.....20%
Second Quality.....25%

MILLS, COFFEE.

Enterprise.....25%
Parker.....40-12½&2½%
Arcade.....40-12½&2½%

MITRE BOXES.

See Boxes.

MOPS.

*Erie*.....per doz. $3 15
*Handled Cotton.*
Pounds..... ¾ 1 1½ 2
Per dozen....$2.00 2.35 2.65 3.25

MOWERS, LAWN.

*Ball-Bearing.*
Inches..... 14 16 18 20
Each.....$6.25 6.75 7.25 8.00
*Cheap Grades.*
Inches..... 12 14 16 18
Each.....$2.35 2.45 2.55 2.70
*Clipper*.....50, 10&10%
*Yale.*
Inches..... 14 16 18 20
Each.....$3.50 3.75 4.00 4.35
*Philadelphia.*
All Styles, except A & E, 60, 10&10%
Style A.....50&10%
Style E, High Wheel....60, 10&10%
Drexels.....40%
All Day .....Net Price

NAILS.

*Cut Steel*.....rates, $2 50
*Cut Iron*..... 2 60
*Wire.*
Small Lots..... $2 40
Carload Lots..... 2 35
Cement Coated..... 2 30
*Horse Shoe.*
Ausable.....55&5%
Capewell.....15%
Perfect.....55&5%
Putnam.....20&5%
Star.....35&5%
Clover Leaf ..... per lb., net, 10½c
*Picture.*
Brass Heads.....25%
*Brads*.....85%
*Furniture*.....15%

NAIL PULLERS.

See Pullers.

NAIL SETS.

See Sets.

NETTING, POULTRY.

Galvanized beforeweaving..80, 10@5%
Galvanized after weaving.....80@5%
Cut Pieces.....65&5%

NIPPERS.

*End Cutting.*
Stubb's Pattern. Inches 5½ 6
Per dozen..... $4.00 4.25
*End and Diagonal Cutting.*
Swedish Side.....75%
Utica Drop Forge & Tool Co....60%
*Hoof.*
Heller's.....40&10%
V. & B.....55&5%

NOZZLES.

*Hose.*
Genuine Gem.....per doz. $3 90
Magic..... " 3 50
Mystic..... " 3 60

NUTS, HOT PRESSED.

*Square Blank.*
In ½ 9/16 ⅝ 11/16 ¾ ⅞
lb 9½c 8c 6½c 5½c 5½c 5c 4½c
*Square Tapped.*
In. ½ 9/16 ⅝ 11/16 ¾ ⅞ 1
lb. 12½c 10½c 8c 7½c 6½c 6½c 6c
For 5-lb. boxes add ½c per lb. to above prices.

OILERS.

*Chase Pattern.*
Brass and Copper.....60%
Zinc.....60%
*Engineers'.*
Cannon.....55%
Tin .....per doz. $2 00@$2 25
*Machine.*
Common.....per doz. $0 58
Copper Plated Steel... " 1 00
Malleable Iron.....60, 10&5%
Japanned..... 65@75

OPENERS

*Box.*
Inches..... 10 1a 1b
Flat.....per doz. $2.85 3.60 4.15
Round.... " 2.10 2 25 2.75
*Can.*
Delmonico .....per doz $1 30
Never Slip..... " 65
*Crate.*
V. & B..... " 5 75

OUTFITS, COBBLING.

Combination.....per doz. $1 00
Economy..... " 4 65
Family..... " 9 75

PADLOCKS.

Standard Wrought.....75&5%
Champion.....50%
Eureka.....40, 10&5%
Yale.....60&5%

PAILS.

*Cream.*
14-qt , without gauge, per doz. $2 50
20-qt., " " " 3 00
20-qt., with gauge.... " 3 50
*Sap.*
10-qt., Galvanized, per 100....$13 00
12-qt., " " .... 14 50
14-qt., " " .... 16 25
16-qt., " " .... 17 75
10-qt.,IC Tin..... " .... 10 25
12-qt., " .... " .... 11 75
14-qt., " .... " .... 13 00
10-qt.,IX Tin.... " .... 12 75
12-qt., " .... " .... 16 00
14-qt., " .... " .... 17 00
*Stock.*
Galv'd, qts. 14 16 18 20
Per doz.... $3.75 4.00 4.75 5.25
*Water.*
Galvanized... qts. 10 12 14
Per doz..... $1.95 2.20 2.45
*Wood.*
Cable, 2-Hoop.....per doz. $1 70
Cable, 3-Hoop..... " 1 90
Cedar, 3-Hoop..... " 2 85
Standard, 2-Hoop.... " 1 60
Standard, 3-Hoop.... " 1 80

PANS

*Dripping*.....60&5%
*Fry*
Common .....75&10%
Acme .....70%
*Roasting.*
Paxton,
Nos..... 1 2 3 4
Per doz.... $4.75 5.75 6.50 7.50
Neverburn .. 4.00 4.50 5.50 6.00
Savory, No. 200.....per doz. $8.00

PAPER.

*Building.*
Plain.....per 100 lbs. $1 25
Tarred..... " 1 35
Tarred Felt..... " 1 65
No. 20, Red Rosin....per roll, 40
No. 30, Red Rosin.... " 55
*Sand and Emery.*
Star ..... low list, 50%
B. & A.....50%
*Wrapping.*
Drab Fiber.....per lb. $0 00
Rag..... " 0 00

### PARERS.

*Apple.*
Bay State.....per doz. $13 50
Turntable..... " 0 00
White Mountain..... " 5 00
Reading..... " 7 00
*Potato.*
Goodsell's Saratoga, 10½ in., doz. 6 50
Goodsell's Saratoga, 5 in., doz. 5 50

### PICKS.

Adze Eye Ore.....70%
Drifting and Poll Picks.....70%
Plumbs, Railroad.....70%
Surface.....70%

### PINCERS.

Carpenters', cast steel.

| Inches | 6 | 8 | 10 | 12 |
|---|---|---|---|---|
| Per doz. | $2.00 | 2.60 | 2.95 | 3.75 |

Blacksmiths'.....45%
Heller's.....40%

### PINS.

*Clothes.*
Common.....per box of 5 gro $0 52
Hoyt's..... " " 31
U. S..... " " 70
*Picket.*
Fluted, 15-in.....per doz. $0 70
Fluted, 21-in..... " 1 60
Spiral..... " 1 90

### PIPE.

*Conductor.*
Territory.
Eastern.....70%
Central.....70&5%
Southern.....70%
Western.....70%
Southwestern.....65&5%
*Lead.*
Full coils.....per lb. 7½c
Cut coils..... " 7¾c
*Stove*

| Acme—Inches.... | 5 | 6 | 7 |
|---|---|---|---|
| Smooth, per jt... | 8¾c | 9¾c | 10¾c |
| Planished, " | 32 c | 33 c | 43 c |
| Peerless—Smooth, | 7¾c | 8 c | 9¾c |
| Polished..... | 14½c | 15½c | 18 c |
| Planished..... | 28 c | 31 c | 35½c |
| Made-up—Inches.. | 5 | 6 | 7 |
| Smooth..... | 7½c | 8 c | 9½c |

7 to 6 in. Smooth Tapers, pr jt...13c
6 in. Smooth T's..... " 27c
7 to 6 in. Planished Tapers.....45c

*Yale Patent Lock Pipe—Stove.*

| Blue Steel: | 5" | 6" | 7" | 7" to 6" |
|---|---|---|---|---|
| | Cents | | | |
| Battle Axe Blue... | 7 | 7½ | 9½ | 10½ |
| Can't Slip " | 7½ | 8½ | 10 | 11 |
| Peerless " | 7½ | 8½ | 10 | 11 |
| Duplex " | 16 | 11 | 13 | 14 |
| Yale, Rus. Pin... | 15 | 16 | 17 | 18 |
| Duplex Planished. | 29 | 31 | 37 | 38 |
| Galvano, Gal..... | 15 | 16 | 17 | 18 |

If wanted made up, add per joint or grooved, 1c; riveted, 1½c. Crating made-up pipe extra.

*Wrought Iron Gas Pipe.*
⅛@½-in., black.....discount, 60%
⅛@½-in., black..... " 60,10&5%
½-in. to 6-in., black... " 70%
7-in. to 12-in., black... " 62½%
⅛@½-in., galvanized.... " 42%
⅛@½-in., galvanized.... " 50%
½-in. to 6-in., galvan'd " 57½%
7-in. to 12-in., galvan'd " 45%

### PLANES.

Sargent Iron Bench.....60%
Stanley Iron Bench.....25&5%

### PLANTERS.

*Corn.*
Monitor.....per doz. $7 75
Triumph..... " 6 00
Segment..... " 9 00
*Potato.*
Acme.....per doz. $6 25
Challenge..... " 11 00
Pingree..... " 2 25
Eureka..... " 6 25

### PLATES, TIN.

See Metals in Column 1.

### PLIERS.

| *Button's*—Ins.. | 4½ | 6 | 8 | 10 |
|---|---|---|---|---|
| Per doz..... | $2.75 | 3.35 | 4.15 | 5.15 |

*Button's Pattern.*

| Inches..... | 4½ | 6 | 8 | 10 |
|---|---|---|---|---|
| Per doz..... | $2.25 | 2.75 | 3.25 | 4.25 |

*Cutting*
Bernard's.....30%
Lodi.....50%
*End and Diagonal Cutting*
Swedish Side.....70%
Utica Drop Forge & Tool Co....50%
*Fencing.*
Farmers' Choice.....per doz. $8 00
Russell's..... " 8 25
*Flat and Round Nose.*
Bernard's.....30%
German.....65%
Lodi.....50%
Paragon.....50%

| *Gas.*—Inches.. | 7 | 8 | 10 | 12 |
|---|---|---|---|---|
| Per doz..... | $3.00 | 3.50 | 4.50 | 5.50 |

*Tinners'.*
Hollow.....40%
Solid.....each, 5½c

### PLUMBS AND LEVELS.

Common.....60&10&10%
Cook's.....40%
Davis' Iron.....25%
Davis' Inclinometer.....15%

### POINTS

Drive Well Points.....75&5%

### POKERS, STOVE.

Wr't Steel, str't or bent, per doz. $0 55
Wr't Steel, wood hand'ls " 80
Nickel Plated, coil hand'ls " 65

### POKES, ANIMAL.

Cracker Jack, wr't steel, per doz. $4 50

### POLISH.

*Metal.*
Pride of the Bar..... $1 00
Putz Cream,

| Pts..... | 1-6 | ¼ | ½ |
|---|---|---|---|
| Per doz..... | $0.80 | 1.10 | 1.65 |

| Pts..... | 1 | 2 | 3 | 8 |
|---|---|---|---|---|
| Per doz.. | $2.75 | 4.50 | 7.50 | 12.50 |

White Silk, half pints, per doz, $2 00
White Silk, 6-oz. cans, per doz. 1 00
Wondershine,

| Pts..... | 1-6 | ¼ | 1 | 2 |
|---|---|---|---|---|
| Per doz. | $0.70 | 1.35 | 2.25 | 3.00 |

*George William Hoffman*
U. S. Metal Polish Paste, 3-oz boxes, per doz, 50c; per gro 4 55
½-lb. boxes.....per doz 1 20
1-lb. boxes..... " 2 25
U. S. Liquid, 8-oz cans, per doz, $1.25.....per gro 12 00
Barkeepers' Friend Metal Polish.....per doz 1 75
.....per gro 18 00
*Shoe.*
M. C. D.....per doz.....36c@50c
F. C. O..... " .....40c
T M..... " .55c@$1 75
Imperial.....per gro..... 5 00
*Stove.*
Black Eagle, 1-lb. cans, pr gr. $15 00
Black Silk—
5-lb. pail..... $0 75
Paste, 5-oz. cans....per doz. 75
Paste, ½-lb. cans.... " 1 05
Liquid, ½-pt. cans... " 1 00
Liquid, 6-oz. cans... " 75
Steel Range Gloss.... " 1 75
Blackene, 1-lb. cans...per gro. 13 00
Black Jack, ½-lb. cans. " 9 25
Dixon's Card. of Iron. " 5 75
Nickel Plate..... " 4 50

### POPPERS, CORN.

Round or Square, 1-qt. per doz. $1 05
Square, 1½-qt..... " 1 15
Square, 2-qt..... " 1 35
4-qt..... " 3 75

### POTS, FIRE.

Berns.....each, $3 85
Clayton & Lambert's, each, $4 75@6 25
Gate City.....each, 6 25
Gem.....each, $6 75@8 50

### POWDER.

See Ammunition.

### PRESSES, FRUIT AND JELLY.

Enterprise Manufacturing Co.....25%
Henis.....per doz. $1 85

### PRIMERS

See Ammunition.

### PRUNERS.

Disston's Pole.....per doz. $6 50
Henry's Improved..... " 75&10%
Water's Improved..... " 80%

### PULLERS.

*Cork.*
Daisy..... each, $3 10
Phoenix..... " 1 40
Quick and Easy..... " 2 70
*Nail.*
Giant.....per doz. 10 50
Giant Pattern..... " 6 00
Jumbo..... " 9 00
*Tack*—Giant..... " 40

### PULLEYS.

*Awning*—Jap'd.....60%
*Clothes Line*.....50&10%
*Hay Fork.*
Iron Wheel, 5-in.....per doz. $1 75
Wood Wheel, 6-in.... " 1 75
Wood Wheel, 6-in., pass knot, .....per doz. 2 15
*Hot House*—Jap'd.....50&10%
*Screw*—Jap'd.....60%
*Side*—Jap'd.....50&10%
*Sash.*
Common.....per doz. $0 20
Common-Sense, 2-in.. " 20
Empire Pattern, 2-in.. " 20
Ideal..... " 20
Steel..... " 25

### PUMPS.

*Pitcher Spout.*

| Nos..... | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Each..... | $1.10 | 1.23 | 1.40 | 1.85 |

*Spray.*
Blizzard.....per doz. $14 50
Cyclone, tin..... " 3 40
Cyclone, copper..... " 6 75
Daisy..... " 9 00
Little Giant.....each,... 2 25

### PUNCHES.

*Conductors'.*
No 22.....per doz $2 25
*Machine*.....per lb 19
*Saddlers'.*
Common.....per doz 60c@70c
Good..... " 72c@84c

### PUTTY.

*In Bladders.*
Strictly pure.....per 100 lbs. 2 35

### RAIL.

*Barn Door.*
Matchless, 1-in..... 3 c
Matchless, 1½-in..... 3½c
Storm King..... 4 c
*Sliding Door.*
Painted steel.....per ft. 4½c
Bronzed wrought iron...per ft. 8½c

### RAKES.

*Coal* or Wood.....per doz. $5 20
*Garden.*
Steel.....70%
Steel, bow.....70%
Malleable iron, heavy.....60&10%
*Hay.*
Wood.....$1 50@$2 00
*Lawn*—Wood.
XXX.....per doz. $3 00
Automatic..... " 5 25
Lawn Queen..... " 3 00
Jumbo, 36 teeth..... " 5 50

### RASPS—See Files.

### RAZORS.

Bo-ras-ic.....50%
Red Devil.....50%
Tree Brand.....50%

### REGISTERS.

List December 5, 1904.

Black and White Japanned.....66⅔%
Nickel Plated.....66⅔%
Electroplated, Brass, Bronze or Copper.....66⅔%

### RINGS.

*Bull.*

| Copper..... | 2½ in. | 3in. |
|---|---|---|
| Per doz..... | $1 35 | $1 75 |
| Rea's Improved Self-Piercing copper, pr doz | 2 00 | .... |
| Steel, per doz..... | 85 | 95 |
| Nickel plated..... | 1 35 | .... |

*and Ringers*—Hog.
Blair's Rings.....per doz. $0 58
Blair's Ringers..... " 75
Brown's Rings..... " 50
Brown's Ringers..... " 80
Champion Ringers.... " 1 60
Hill's Ringers..... " 70
Hill's Ring, boxes.... " 47
Major Rings..... " 60
Perfect Ringers..... " 95
Wolverine Rings..... " 1 40
Wolverine Ringers.... " 80
*Fruit Jar.*
White.....per lb.....30c
*Key.*
Split, round.....per doz. $0 17
Split, square..... " 32
Ball, round..... " 32

### RIVETS.

*and Burrs.*
Copper Belt.....33⅓%
Coppered Iron.....60&10&5%
Tinners'.....60&10%
*Hame*.....per lb. $0 10
*Slotted Clinch* per doz 40c@45c
*Tubular*
Nos 1 and 2 assorted sizes, doz, 45c

### RIVET SETS

See Sets.

### ROPE.

*Cotton.*
¼, 5-16 in. Com on reels. per lb. 11½c
¼, 5-16 in Com. in coils.. " 12 c
¼, 5-16 Imperial in coils.. " 21 c
*Sisal*
1st Quality.....12 c
Hardware Grade, rates, per lb...10 c
*Pure Manila.*
1st quality.....per lb. 15½c
Hardware Grade, rates... " 14½c

### RULES.

Boxwood.....50&10%
Ivory.....

### SASH WEIGHTS.

See Weights.

### SAWS.

*Back.*
Disston's.....25%
Jackson's.....25%
*Butchers'.*
Disston's.....30%
*Circular.*
Disston's.....50%
Hiles'.....50&10%
*Compass.*
Common.....per doz $1 35@1 60
Disston's.....%25
*Cross-Cut*
Disston's.....45%
*Dehorning.*
Disston's.....per doz. $5 75
*Hack.*
Disston's.....25%
Keystone.....30%
*Hand and Rip.*
Brown's.....30%
Disston's No. 7.....30%
Disston's Nos 8, D8, 12, 76, 112, D100, and 120 (new list).....25%
Keystone.....30%
Enterprize, hand.....per doz. $5 00
Our Saw, hand..... " 4 00
Our Saw, rip..... " 4 50
*Keyhole*—Disston's.....25%
*Kitchen.*
Sterling.....25%
*One Man*.....50%
*Panel*
Brown's.....30%
Disston's No. 7.....30%
Disston's No. D100.....25%
*Pruning.*
Brown's.....25%
Disston's.....25%
*Wood*
Common.....per doz. $4 50
Clover Leaf..... " 6 00

### SAW BUCKS—See Bucks.

### SAW SETS—See Sets.

### SAW TOOLS—See Tools.

### AW FRAMES.

Common, plain.....per doz. $1 25
Common, painted..... " 1 70

### SCALES.

*Counter.*
Pelouze.....40&10%
*Platform.*
Osgood.....50%

### SCOOPS.

*Grain.*
½-bu. "Hercules".....per doz. 13 70
1-bu. "Hercules"..... " 15 00

### SCRAPERS.

*Box.*
Triangular.....per doz. $4 00
*Cabinet.*
Cast Steel . . per doz, 60c@75c
*Road.*

| Cubic ft. | 7 | 5 | 3 |
|---|---|---|---|
| Without run's, ea. | $4.00 | 3.75 | 3.50 |
| With runners, ea.. | 4.25 | 4.00 | 3.75 |

### SCREWS.

*Bench.*

| Iron, in..... | 1 | 1½ | 1½ |
|---|---|---|---|
| | $3.50 | 4.00 | 4.75 |

Wood, white maple...per doz. $3 50
*Hand*—Wood.....10%
*Hand Rail*.....80&10%
*Jack*.....70&10&5%
*Lag or Coach*—all sizes, gimlet pointed.....75&5%
*Saw*—Centennial

| Nos .. | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Per doz. | 18c | 20c | 26c | 30c | 23c | 25c |

*Wood.*
F. H. Bright.....87½&5%
R. H Blued.....85%
F. H. Jap'd.....82½%
F. H. Brass.....85%
R. H. Brass.....80%
R. H. Nickel Plated.....75-10%

### SCYTHES.

Be Ve Be, grass.....per doz. $8 50
Clipper, grass..... " 8 00
Clover Leaf Dutchman. " 8 00
Honest Dutchman..... " 8 00
Be Ve Be..... " 8 00

### SHAVING SETS.

Smith & Hemenway.....60%

### SETS.

*Nail.*
Round, common.....per doz. $0 33
Square, common..... " 42
Octagon, common..... " 33
No. 5, square..... " 75
Cup point, knurled... " 75

*Rivet.*
Farmers'.....per doz. $1 20
Tinners'.....50&10%

*Saw.*
Aiken's Pattern.....per doz $3 50
Common Lever..... " 1 20
Disston's Monarch.... " 6 50
Disston's X Cut ..... " 12 00
German..... " 1 05
Morrill's Old Style.... " 5 00
Morrill's Pattern..... " 3 25
Leach's..... " 80
Nash's Hand..... " 3 15
Nash's X Cut..... " 4 20
Stillman's Lever..... " 1 30
Stillman's X Cut. ... " 2 50

### SHARPENERS, SKATE.

Diamond..... per doz $1 60
Smith & Hemenway .....20%

### SHAVES, SPOKE

Iron.....per doz $1 10@1 85
Wood ..... " 2 75@4 75
Bailey's .....50&5%
Goodell's .....15%

### SHEARS

*Pruning*
Buckeye, No. 1.....per doz $5 75
Buckeye, No. 2..... " 7 40
California Pat., 9-in.. " 3 20
Cailfornia Pat., 10-in.. " 4 00
Draw Cut, No. 3..... " 13 75
Draw Cut, No. 4..... " 16 50
Henry's Pat. 0 01 14 012
Per doz.....$1.40 2.10 2.90 2.80
Star.....per doz $4 00

*Sheep*—No BBA.
Inches..... 6 6½ 7
Reg. Grip.....$11.25 11.50 12.00
Nar. Grip.,doz.... 11.00 11.25 12.25

*Tinners'*—See Snips.

### SHEAVES, SLIDING DOOR.

*Common.*
Inches..... 3 4 5
Per set..... $0.34 .42 .70

*Hatfield's.*
Per set..... $0.75 1.00 1.60

### SHELLS—See Ammunition.

### SHELLERS, CORN.

Union.....per doz. $6 75

### SHIELDS.

Expansion Bolt Shields.....50&10%

### SHOES.

*Conductor*.....60&10%

### SHOE POLISH—See Polish.

### SHOT—See Ammunition.

### SHOVELS AND SPADES.

*Coal*
No 2 Woodford.....per doz. $5 50
No. 182..... " 6 00
Ames' new list .....Discount, 12½%

Per doz.
Neverbreak, hollow bck, blk. $15 75
National.... " " " 14 75
Buckeye.... " " " 10 00
Mohawk.... " " " 9 00

*Drain.*
Iwan's Perfection.....50%

*Railroad, etc.*
Black Diamond.....per doz. $1 50
Crescent..... " 5 75
Keystone..... " 8 75
Star..... " 4 75
Vaterland..... " 9 50
Hollow Back..... " 4 75
Ames, new list .....Discount, 12½%

*Snow.*
Per doz.....$1.65@$9.00

*Alaska Steel.*
D Handle.....per doz. $3 50
Long Handle..... " 3 00

### SINKS.

*Cast Iron.*
Painted.....50&10%
Enameled, White.....50&10%

*Wrought Steel.*
Painted, new list.....40-10&5%

### SLEDGES—See Hammers.

### SNAPS, HARNESS.

Champion.....33⅓%
German Pattern.....30&5%
Judd's Pattern.....50%

### SNATHS.

Double Ring, Bush.....per doz. $6 00
Patent Loop, Bush..... " 5 75
Patent Loop, Grass..... " 5 [illegible]

### SNIPS, TINNERS'.

Wiss.....40%
National.....40&10%

### SOLDER—See Metals.

### SPRINGS, DOOR.

*Perfect.*
Nos..... 1 2 3 4
Per doz.....30c 35c 40c 54c

*Reliance.*
Per doz ... light, $1.25; heavy, $2 50

*Star.*
Per doz .... light, 90c; heavy, $1 35
Torrey's.....per doz. $1 35
Warner's No..... 11 13
Per doz..... 75c $1 35

### SQUARES.

*Steel and Iron*.....70&5%
(Add for gluing, $2.50 per doz., net.)
*Mitre.*
*Try.*
*Try and Bevel.*
*Try and Miter.*
Fox's.....per doz. $5 75
Winterbottom's.....70%

### SQUEEZERS, LEMON.

Common Wood.....per doz. $0 70
Porcelain Lined, Wood.. " 1 25
Boss, malleable iron.... " 1 20
Iron Frame, porc'n bowl " 1 90
Iron Frame, glass bowl . " 2 35
Little Giant, tin'd iron . " 4 00
Drum, japanned..... " 3 60
Drum, nickel plated ... " 4 50

### STAPLES

*Blind.*
Barbed.....per lb ...9½@9¾c
*Butter Tub*..... " .....8 @8½c
*Fence*—less than carload.
Polished.....per 100 lbs. $2 30
Galvanized..... " 2 60
*Netting.*
Galvanized.....per 100 lbs. 4 00
*Wrought.*
Wrought Staples, Hasps and Staples, Hasps Hooks and Staples, Hooks and Staples.....80-10&10%
Extra heavy.....75&10%

### STEELYARD.

Discount 25%.

### STONES.

*Axe.*
Hindostan .....per lb 5½@7 c
More Grit..... " 9½c
Washita ..... " 17 c
*Emery*.....60%@60&5%
*Oil*—Mounted.
Arkansas Hard.....per doz.$23 00
Arkansas Soft..... " 15 50
Hindostan .....per lb 6½@6¾
*Oil*—Unmounted.
Arkansas Hard .....per lb $2 05
Arkansas Soft ..... " 1 10
Lily White..... " 45
Queer Creek..... " 15
Ouachita..... " 38
Washita..... " 26
*Sythe.*
Black Diamond.....per gro. $8 00
Crescent..... " 4 25
Gem Corundum..... " 7 50
Green Mountain..... " 4 50
La Moille ..... " 7 00
Quinnebog..... " 5 00
Red End ..... " 3 75

### STOPS, BENCH.

Hotchkiss'.....per doz. $3 50
Stearns'..... " 4 75

### STOPPERS, FLUE.

Common.....per doz. $0 40
Crown..... " 45
Gem, flat, painted..... " 85
Gem, cor'd, decorated... " 70
Kirch's..... " 90
Perfect..... " 70@85
Skinner's Common Sense " 80

### STOVE PIPE—See Pipe.

### STOVE BOARDS—See Boards

### STOVE POLISH—See Polish.

### STRAPS.

*Scoop*.....per doz prs., $1 85
*Shave*..... " " 60@70c

### STRETCHERS.

*Carpet.*
Bullard's.....per doz. $3 90
Excelsior..... " 5 25
Malleable Iron..... " 70
Perfection..... " 6 30
King..... " 4 50

*Wire.*
N. S. Elwood's.....per doz. $6 00
O. S. Elwood's..... " 6 00
Little Giant..... " 5 75
Safety..... " 10 00
Star Lever..... " 6 25
Canton Tackle Block. " 9 50
Warner's ..... " 6 25

### SWIVELS.

Malleable Iron.....per lb. $0 70
Wrought Steel.....per gro. 4 50

### TACKS.

American Cut.....90&15%
American Wire.....85&20%
Bill Posters Cut.....90&20%
Blued Carpet.....90&10%
Tinned Carpet.....90&10%
Gimp.....90&10%
Upholsters' Cut.....90&20%
Upholsters' Wire.....90&10%
Double Pointed.....90%
Copper.....per lb. 22c
Canvas Nails.....75&5%
Clout Nails.....75&10%
Hungarian Nails.....80%

### TAPES, MEASURING.

Asses' Skin.....40&10%
Bend Leather.....20%
Patent Leather.....20%
Lufkin's Steel.....25%
Lufkin's Metallic.....30%

### TEE BEVELS—See Bevels.

### THERMOMETERS.

Tin Case.....per doz. 80c@$1 25
Wood Back..... " $2.00@12 00
Glass..... " 12 00

### TIES.

*Bale.*
Single Loop.....80&5%
All other kinds.....70%
*Cow*—See "Chains."

### TOOLS, SAW.

Disston's Universal.....40%
*Miniature.*
Smith & Hemenway.....25%

### TRAPS.

*Fly.*
Ballon.....per doz. $1 25
Harper's..... " 1 35
*Game.*
Newhouse.....40&10%
New Victor.....70&10%
*Mole.*
Reddick's.....per doz. $6 00
*Mouse and Rat.*
Wood Choker ..per doz. holes $0 13
Tin Choker..... " " 75
Delusion.....per doz. 1 15
Marty Rat..... " 6 25
Marty Rat Imitation. " 3 50
Marty Mouse..... " 3 00
Marty Mouse Imitation " 2 00
Hold-em, wire rat.... " 3 75

### TROWELS.

*Brick.*
Clover Leaf.....30%
Brade's.....15&5%
Disston's.....20%
Rose's.....20%
*Plasterers'.*
Clover Leaf.....40%
Disston's.....25%
W. & McP.....25%

### TRUCKS.

Bag .....each, $2 75
Handy..... " 1 85
Warehouse.....50&10%
No..... 1 2 3
Half Ironed ..... $3.00 3.85 5.50
Full Ironed..... 3.15 4.50 6.45

### TUBS, WASH

*Standard, Wood* Ex.
Nos..... 2 1 large
Per doz.....$5.00 6.00 7.00 9.50
*Dowell.*
Per doz..... 5.35 6.35 7.00 9.50
*Cedar.*
Per doz.... 6.10 7.10 7.90 10.80
*Indurated.*
Per doz..... 8.55 9.45 10.80 13.50
*Galvanized.*
No..... 1 2 3
Per doz.....$6.00 6.75 7.75

### TWINE.

Per lb.
3-ply Cotton Wrapping .....25c
4 " " " .....25c
" " Extra Wrapping.....27c
4 " " " Hvy. Wrapping ....25c
4 " " Wrapping on tubes....27c
3 " " " " cones.....25c
4 " " " " " ....25c
India Hemp, ¾-lb. balls .....19c
" " ½-lb. " .....18c
" " ¼-lb. " .....doz. 75c
2-ply Jute, ½-lb. " .....14c
3-ply Jute, ½-lb. " .....13c
Jute Wrapping, ½-lb. balls.....14c
Jute Wool, 1-lb. balls.....9½c
*Seins.*
Nos..... 9 12 15
Soft.....per lb 26½ 26 25
Med..... " 26½ 26 25
Hard..... " 27 26½ 26
Staging, ¼-lb. ball, size 21.....26½c
" " " " 24.....26c
" " " " 27.....26c
Bagging " " .....23c
3-p y "B" in hanks .....18c
4- " "B" " .....18c
3 " "A" " .....27c
3 " Silver Finish, in hanks...37c
*Fodder or Lath.*
130 strand.....6½c
200 strand.....—c

### VISES.

Phœnix.....30%
Phœnix Oval Slide,
Inches..... 2½ 3 3½ 4½
Each..... $1.25 1.50 1.85 2.75
Parker's Parallel.....18&20%
Parker's Victor.....15%
Parker's Combination.....75%
Solid Box.....40&5%
Adams' Mechanics'.....each 2 50
Williamson's Universal.....60%

### WARE.

*Stove Hollow Ware.*
Plain or Unground.....50%
Ground Ware.....45%
Enameled Ware.....33⅓%
*Country Hollow Ware*, per 100 lbs. $3 00
*White Enameled Ware.*
Maslin Kettles.....60&10%
*Covered Ware.*
Tin'd and Turn'd.....35&10%
Enameled.....45&10%
*Glue Pots,*
Tinned.....25%
Enameled.....30%
*Enameled.*
Cherry Blossom and Chrysolite..50%

### WASH BOARDS—See Boards.

### WASHERS.

Standard O G. cast iron . . .per lb. 2½c
Wrought iron in bulk, per lb.:
In. ½ ⅝ ¾ ⅞ 1 1¼ 1½ 1¾ 2
9c 6½c 5c 4½c 4½c 4½c 3½c
Wrought steel in 5-lb. boxes, per lb.:
In. ½ ⅝ ¾ ⅞ 1 1¼ 1½ 1¾ 2
10c 7c 6c 5½c 5c 5c 4½c

### WASHING MACHINES—See Machines.

### WEDGES.

*Ax*.....per doz. $0 30
*Galling*.....per lb. 10½
*Saw*..... " 8½

### WEANERS.

*Calf.*
Fuller's, per doz.....$2 00 to $2 50
Tyler's Safety, per doz 1 85 to 2 40
Carroll's, per doz..... 3 00 to 3 75
Standard, per doz..... 3 00
Hoosier, per doz..... 3 50 to 4 00

### WEIGHTS.

*Hitching*.....per lb. 2½c
*Sash*—f.o.b. Chicago....pr ton, 26 50

### WHEEL BARROWS.

Common Railroad.....per doz. $17 00
Heavy Railroad..... " 24 00
Panama Steel Tray.... " 39 00
Klondike Steel Tray.. " 28 00

### WHEELS.

*Corundum*.....70&10&5%
*Emery*.....75&5%
*Well.* Inches.. 8 10 12 14
Per doz..... $2.40 3.25 4.00 6.00

### WIRE.

*Barbed.* Painted. Galv'd
Carloads . . per 100 lbs. $2.65 $2.95
Less than car " 2.70 3.00
*Brass.*
In coils.....20%
In 1-lb. spools, new list.....50%
*Broom*—Tinned . . . 60&10&10&10%
*Cable*—Same price as Barbed Wire.
*Copper.*
In coils.....20&10%33⅓%
1-lb. spools, new list.....50&10%
*Fence*—Smooth.
Nos. 6 to 9, An'eal'd, pr 100 lbs. $2 30
Nos. 6 to 9, Galv'd.. " 2 60
*Hair*—New List.....50%
*Market.*
Bright, full bdles.....70&5%
Bright, broken bdles.....70%
Coppered, full bdles.....70%
Coppered, broken bdles.....65&10%
Tinned, full bdles.....75&5%
Tinned, broken bdles.....65&10%
*Picture*—In coils .... 80%@80&10%
In 5-lb. spools.....per lb.....26c
*Plain*—Small lots..... $2 10
Car lots..... 2 05
Small spools 5c per 100 higher.

### WRENCHES.

Acme Standard.....60%
Alligator No. 1.....85cnet
Always Ready.....50%
Coe's Standard.....40&10&5%
Agricultural.....70&10%
Ellis Adjustable.....25%
Malleable "S".....per lb. 08c
Malleable..... " 08c
Stillson Pipe.....70%

### BEMIS & CALL'S WRENCHES.

Improved Adjustable S nut.....40%
Improved Adjustable S pipe .....40%
Briggs' Pattern nut.....40%
Combination Bright.....40%
Combination Black.....40&5%
Steel Handle nut.....50%
Merrick Pattern nut.....50%

### WRINGERS.

No. 22, Guarantee....per doz. $32 50
No. 110, Guarantee.... " 32 50
No. 110, Brighton..... " 23 50
No. 110, Bicycle..... " 31 50
No. 500, Royal..... " 32 50
No. 350, Universal..... " 28 00
No. 300, Novelty..... " 28 00
No. 310, Keystone..... " 28 00
No. 100, Rival..... " 23 50

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Canton Mfg. Co., Canton, O
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**Cement—Roofing**

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Conners, Wm. Paint Mfg. Co., Troy, N.Y

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Bridgeport Chain Co., Bridgeport, Conn

**Chains—Jack and Safety**

Hungerford, U. T. Brass & Copper Co., New York

**Chimney Tops**

Iwan Bros., Streator, Ill

**Clothes Dryers**

Mannen & Esterly, Cleveland, O
Martcross Co., Chicago

**Coil Springs**

Pullman Mfg. Co., Rochester, N.Y

**Conductor Hangers**

Berger Bros. Co., Philadelphia, Pa

**Conductor Pipe**

Berger Mfg. Co., Canton, O
Canton Mfg. Co., Canton, O
Clark, Quien & Morse, Peoria, Ill
Eller Mfg. Co., Canton, O
Friedley & Voshardt, Chicago, Ill
La Crosse Steel Roof. Co., La Crosse, Wis
Reeves Mfg. Co., Canal Dover, O
Schoedinger, F. O., Columbus, Ohio
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn

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**Elbows—Conductor Pipe**

Canton Mfg. Co., Canton, O
Dieckmann, Ferdinand. Cincinnati, O.
Milwaukee Artistic Metal Ceiling Co., Milwaukee, Wis
Eller Mfg. Co., Canton, O
Reeves Mfg. Co., Canal Dover, O
Wheeling Corrugat'g Co., Wheeling, W. Va

**Elbows—Stove Pipe**

Reeves Mfg. Co. Canal Dover, O

**Electrical Supplies**

Manhattan Electrical Supply Co., Chicago, Ill

**Elevators**

Kimball Bros. Co., Council Bluffs, Ia.

**Enamel—Iron**

Nickel Plate Stove Polish Co., Chicago, Ill

**Enameler**

John Peil, Columbus, O

**Enameled Ware**

Lalance & Grosjean Mfg. Co., Chicago, Ill
Star Enameling & Stamping Co., Pittsburgh, Pa

**Enameler**

Peil, Jno., Columbus, Ohio

**Fencing—Wire**

Denning Wire & Fence Co., Cedar Rapids, Ia
Pittsburgh Steel Co., Pittsburgh, Pa

**Files**

Carver File Wks, Philadelphia, Pa
Disston, Henry & Sons, Philadelphia, Pa

**Firearms**

Stevens, J. Arms & Tool Co., Chicopee Falls, Mass

**Firearms—Accessories**

Stevens, J. Arms and Tool Co., Chicopee Falls, Mass

**Flash Lights**

Manhattan Elec. Sup. Co., Chicago, Ill

**Food Choppers**

Enterprise Mfg. Co., Philadelphia, Pa

**Forming Rolls**

Bertsch & Co., Cambridge City, Ind
Niagara Machine & Tool Wks, Buffalo, N. Y

**Foundry Supplies**

Obermayer, S. Co., Cincinnati, O
Stevens, F. B., Detroit, Mich

**Furnace Cement**

Connors Paint Mfg. Co., Wm., St. Louis, Mo

**Furnaces—Gas**

Mannen & Esterly Co., Cleveland, O

**Furnaces—Hot Air**

Boynton Furn. Co., Chicago, Ill
Forest City Fdy. & Mfg. Co., Cleveland, O
Green Fdy. & Furn. Wks., Des Moines, Ia
Haynes-Langenberg Mfg. Co., St. Louis, Mo
Henry & Scheible Co., Cleveland, O
Kelsey Heating Co., Syracuse, N. Y
Lennox Furnace Co., Marshalltown, Ia
Mannen & Esterly Co., Cleveland, O
March-Brownback Stove Co., Pottstown, Pa
Monroe Fdy. & Furn. Co., Monroe, Mich
Mueller, L. J. Furn. Co., Milwaukee, Wis
Ralt, Walter S. & Co., Chicago, Ill
Schwab, R. J. & Sons Co., Milwaukee, Wis
Standard Register Co., Cleveland, O.
Stove & Range Co of Pittsburgh, Pittsburgh, Pa
Youngstown Furn. & Supply Co., Youngstown, O

**Furnaces—Tinners'**

Clayton & Lambert Mfg. Co., Detroit, Mich
Diener, Geo. W. Mfg. Co., Chicago, Ill
Turner Brass Works, Sycamore, Ill

**Furnace Pipe and Fittings**

Green Fdy. & Furn. Wks., Des Moines, Ia
Mueller, L. J. Furn. Co., Milwaukee, Wis
Smith Co., Chas. Chicago, Ill

**Furnace Repairs**

Northwestern Stove Repair Co., Chicago, Ill

**Gas Stoves**

Stove & Range Co. of Pittsburgh, Pittsburgh, Pa

**Gasoline Lighting System**

Gloria Light Co., Chicago, Ill

**Generators—Acetylene**

Ideal Epworth Acetylene Co., Waterloo, Iowa, & Johnstown, Penn

**Grain Grader**

Paxton & Gallagher Co., Omaha, Neb

**Grinders**

Royal Mfg. Co., Lancaster, Pa

**Hand Punching Machines**

American Lock Nut Co., Oregon, Ill

**Hangers—Door**

Richards Mfg. Co., Aurora, Il
Safety Door Hanger Co., Ashland, O

**Hangers—Eaves Trough**

Schoedinger, F. O., Columbus, O

**Hangers—Garment**
Pullman Mfg. Co., Rochester, N.Y

**Hardware Jobbers**
Clark, Quinn & Morse, Peoria, Ill
Paxton & Gallagher Co., Omaha, Neb

**Hardware Specialties**
Carver File Co., Philadelphia, Pa
Clark, Quinn & Morse, Peoria, Ill
Enterprise Mfg. Co. of Pa., Philadelphia, Pa
Paxton & Gallagher Co., Omaha, Neb
Peck-Hamre Mfg. Co., Berlin, Wis
Pullman Mfg. Co., Rochester, N. Y
Pritchard-Strong Co., New York, N. Y
Smith & Hemenway Co., New York, N. Y

**Hardware Delivery Wagons**
Sycamore Wagon Wks., Sycamore, Ill

**Heating**
Detroit Heating & Lighting Co., Detroit, Mich
Kelsey Heating Co., Syracuse, N. Y

**Hinges**
Griffin Mfg. Co., Erie, Pa
Kees Mfg. Co., F. D., Beatrix, Neb
Lawson Mfg. Co., Chicago, Ill

**Hollow Ware**
Avery Stamping Co., Cleveland, O
Sperry, D. B. & Co., Batavia, Ill

**Horse Nails**
Standard Horse Nail Co., New Brighton, Penna

**Huskers—Corn**
Kees Mfg. Co., F. D., Beatrice, Neb

**Ice Cream Freezers**
North Bros. Mfg Co., Philadelphia, Pa

**Iron Enamel**
Nickel Plate Stove Polish Co., Chicago, Ill

**Kitchen Utensils**
Avery Stamping Co., Cleveland, O
Lalance & Grosjean Mfg. Co., Chicago, Ill
Republic Metalware Co., Buffalo, N. Y

**Lanterns**
Berger Mfg. Co., Canton, O

**Lawn Fence**
Denning Wire & Fence Co., Cedar Rapids, Ia

**Lawn Mowers**
Dixon Lawn Mower Co., Dixon, Ill
Philadelphia Lawn Mower Co., Philadelphia, Pa

**Levels**
Baker-McMillen Co., Akron, O
Davis & Cook, Watertown, N. Y

**Lighting**
Detroit Heating & Lighting Co., Detroit, Mich
Gloria Light Co., Chicago, Ill
Ideal Epworth Acetylene Co. Waterloo, Iowa and Johnstown, Penna
Standard Lighting Co., Cleveland, O

**Mail Boxes**
Slick-Williams Co., Indianapolis, Ind
Peck-Hamre Mfg. Co. Berlin, Wis

**Metal—Perforated**
Harrington & King Perforating Co., Chicago, Ill

**Metal Polish**
Hoffman, Geo. W., Indianapolis, Ind
Nickel Plate Stove Polish Co., Chicago, Ill

**Metal Shingles**
Burton, W. J. Co., Detroit, Mich
Cortright Metal Roofing Co., Philadelphia, Penna
Nat'l Sheet Metal Roofing Co., Jersey City, N. J
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn

**Miters**
Whitacre, J. E. Mfg. Co., Rockford, Ill

**Motors—Water**
Lippincott S. S. & S. Co., New York, N.Y

**Nails and Tacks—Copper**
Hungerford, U. T., Brass & Copper Co., New York, N. Y

**Nuts**
American Lock Nut Co., Oregon, Ill
Columbus Bolt Works, Columbus, O

**Ornaments—Sheet Metal**
Gerock Bros. Mfg. Co., St. Louis, Mo

**Paints and Paint Specialties**
Buckeye Paint & Varnish Co., Toledo, O
Connors, Wm., Paint Mfg. Co., Troy, N. Y
Dixon, Jos. Crucible Co., Jersey City, N.J
Pitkin Co., Geo. W. Benton Harbor, Mich

**Pencils**
Dixon, Jos. Crucible Co., Jersey City N.J

**Perforated Metal**
Harrington & King Perforating Co., Chicago, Ill

**Pistols**
Stevens, J. Arms & Tool Co., Chicopee Falls, Mass

**Plungers**
Berger Bros. Co., Philadelphia, Pa

**Polish—Metal**
Hoffman, Geo. W., Indianapolis, Ind
Nickel Plate Stove Polish Co., Chicago, Ill

**Pumps**
Berger Mfg. Co., Canton, O

**Punches**
American Lock Nut Co., Oregon, Ill
Bertsch & Co., Cambridge City, Ind
Niagara Machine & Tool Works, Buffalo, N.Y
Robinson, Mfg. Co., J. M., Cincinnati, O
Weiss, L. T., Brooklyn, N. Y

**Putty—Stove**
Connors, Wm. Paint Mfg. Co., Troy, N.Y

**Radiators**
Rochester Radiator Co., Rochester N.Y

**Rasps**
Disston, Henry & Sons., Philadelphia, Pa
Carver File Wks., Philadelphia, Pa

**Razors**
Smith & Hemenway Co., New York, N.Y

**Registers**
Henry & Scheible Co., Cleveland, O
Independent Register & Mfg. Co., Cleveland, O
Mueller, L. J., Furn. Co., Milwaukee, Wis
Schwab & Sons Co., Milwaukee, Wis
Standard Register Co., Cleveland, O
Symonds Mfg. Co., E. St. Louis, Ill
Tuttle & Bailey Mfg. Co., New York, N.Y
Waterloo Register Co., Waterloo, Ia

**Register Faces**
Wooden Ventilator Co., East Palestine, O

**Rifles**
Stevens, J. Arms & Tool Co., Chicopee Falls, Mass

**Rivets**
Columbus Bolt Works, Columbus, O
Hungerford, U.T., Brass & Copper Co., New York, N. Y

**Roasters**
Wheeling Corrugating Co., Wheeling, W. Va

**Roofers' Supplies**
Auld & Conger Co., Cleveland, O

**Roofing—Asphalt**
American Sheet & Tin Plate Co. Pittsburgh, Pa
Stowell Mfg. Co., Jersey City, N.J

**Roofing—Iron and Steel**
Berger Mfg. Co., Canton, O
Burton, W. J. Co., Detroit, Mich
Canton Art Metal Co., Canton, O
Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Friedley & Voshardt, Chicago, Ill
La Crosse Steel Roof. Co., La Crosse, Wis
Nat'l Sheet Metal Roof. Co., Jersey City, N. J
Reeves Mfg. Co., Canal Dover, O
Schoedinger, F. O., Columbus, O
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn
Sykes Steel Roofing Co., Chicago, Ill
Wheeling Corrugating Co., Wheeling, W. Va

**Roofing Cement**
Auld & Conger Co., Cleveland, O
Connors Paint Co., The Wm., Troy, N.Y
Taylor Co., N. & G., Philadelphia, Pa

**Roof Paint**
Dixon, Jos. Crucible Co., Jersey City, N.J

**Rules**
Lufkin Rule Co., Saginaw, Mich

**Sash Balances**
Pullman Mfg. Co., Rochester, N.Y

**Saw Sets and Saws**
Disston, Henry & Sons, Philadelphia, Pa
Smith & Hemenway Co., New York, N.Y

**Screens—Perforated Metal**
Harrington & King Perforating Co., Chicago, Ill

**Screen Door Checks**
Pullman Mfg. Co., Rochester, N. Y

**Screws**
Columbus Bolt Works, Columbus, O

**Screw Drivers**
North Bros. Mfg. Co Philadelphia, Pa

**Seamless Tubing—Brass & Copper**
Hungerford, U. T., Brass & Copper Co., New York, N. Y

**Seed Cleaners**
Paxton & Gallagher, Omaha, Neb

**Sharpeners—Tool**
Royal Mfg. Co., Lancaster, Pa

**Shears**
Bertsch & Co., Cambridge City, Ind
Niagara Machine & Tool Works, Buffalo, N. Y
Robinson, Mfg. Co., J. M., Cincinnati, O
Weiss, H. & Co., New York, N.Y

**Sheets—Black and Galvanized**
Berger Mfg. Co., Canton, O
Taylor Co., N. & G., Philadelphia, Pa
Wheeling Corrugat'g Co., Wheeling, W. Va

**Sheets—Planished**
Follansbee Bros., Pittsburg, Pa
Taylor Co., N. & G., Philadelphia, Pa
Ward-Dickey Steel Co., Indiana Harbor, Ind

**Shelf Boxes**
Green & Co., A. H., New York, N. Y

**Shot Guns**
Stevens J., Arms & Tool Co., Chicopee Falls, Mass

**Shovels**
Avery Stamping Co., Cleveland, O

**Siding**
Milwaukee Artistic Metal Ceiling Co., Milwaukee, Wis

**Sifters**
Stuber & Kuck, Peoria, Ill

**Skylights**
Berger Mfg. Co., Canton, O
Burt Mfg. Co., Akron, Ohio
Eller Mfg. Co. Canton, O
Schoedinger, F. O., Columbus, O
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn

**Skylight Gearing**
Weiss, H. & Co., New York, N.Y

**Slate Roofing**
Auld & Conger Co., Cleveland, O

**Solder**
Aluminum Solder & Refining Co., Oswego, N. Y
Taylor Co., N. & G., Philadelphia, Pa

**Solderene**
Solderene Co., The Boston, Mass

**Squares, Machinists'**
Disston, Henry & Sons, Philadelphia, Pa

**Stampings—Sheet Metal**
Avery Stamping Co., Cleveland, O

**Statuary**
Gerock Bros. Mfg. Co., St. Louis, Mo

**Stoves and Ranges**
Champion Steel Range Co., Cleveland, O
Chicago Stove Works, Chicago, Ill
Culter & Proctor Stove Co., Peoria, Ill
Foster Stove Co., Ironton, O
M. & D. Range Co., Chicago, Ill
Standard Lighting Co., Cleveland, O
Stove & Range Co. of Pittsburgh, Pittsburgh, Pa.
Union Stove Co., New York, N.Y

**Stove Cement**
Dixon, Jos. Crucible Co., Jersey City, N J

**Stoves—Gas**
Champion Steel Range Co., Cleveland, O
Stove & Range Co. of Pittsburgh Pittsburgh, Pa

**Stoves—Oil**
Standard Lighting Co., Cleveland, O

**Stove Mats**
Stuber & Kuck, Peoria, Ill

**Stove Patterns**
Cleveland Castings Pattern Co., Cleveland, O
Cope Pattern, Geo. W. Wks., Detroit, Mich
Quincy Pattern Co., Quincy, Ill
Vedder Pattern Works, Troy, N. Y
Weller Pattern Co. Quincy, Ill

**Stove Pipe**
Hemp & Co., St. Louis, Mo

**Stove Pipe Thimbles**
Stuber & Kuck, Peoria, Ill

**Stove Putty**
Connors Paint Mfg. Co., Wm., St. Louis, Mo

**Stove Repairs**
Brauer, A. G., Supply Co., St. Louis Mo
Manufacturers Stove Repair Co., Chicago, Ill
Northwestern Stove Repair Co., Chicago, Ill
Reeves, S. V., Philadelphia, Pa

**Stove Trimmings**
Cleveland Nickel Works, Cleveland, O

**Stove Trucks**
Arcade Mfg. Co., Freeport, Ill

**Sugar Kettles**
Sperry, D. B. Co., Batavia,

**Supplies—Foundry**
Obermayer Co., S., Cincinnati, O
Stevens, F. B., Detroit, Mich

**Supplies—Stove Dealers'**
Brauer, A. G., Supply Co., St. Louis, Mo

**Tacks**
Hungerford, U. T., Brass & Copper Wks. New York, N. Y

**Tanks**
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn

**Tapes**
Lufkin Rule Co., Saginaw, Mich

**Technologist**
Hooper, C. N. Dubuque, Iowa

**Thermometers—Oven**
Evans Stamping & Plating Co., Taunton, Mass

**Tin—Perforated**
Harrington & King Perforating Co., Chicago, Ill

**Tin and Terne Plate**
American Sheet & Tin Plate Co. Pittsburgh, Pa
Berger Mfg. Co., Canton, O
Follansbee Bros. Co., Pittsburgh, Pa
Taylor Co., N. & G., Philadelphia, Pa

**Tinners' Tools**
Auld & Conger Co., Cleveland, O
Berger Bros. Co., Philadelphia, Pa
Lufkin Rule Co., Saginaw, Mich
Niagara Machine & Tool Works, Buffalo, N. Y
Smith & Hemenway Co., New York N.Y
Taylor Co., N. & G., Philadelphia, Pa

**Tinplate**
American Sheet & Tin Plate Co., Pittsburg, Pa
Canton Art Metal Co., Canton, O
Eller Mfg. Co. Canton, O
Follansbee Bros. Co., Pittsburg, Pa
Merchant & Evans Co., Philadelphia,
Schoedinger, F. O., Columbus, O
Taylor Co., N. & G., Philadelphia, Pa
Wheeling Corrugating Co., Wheeling, W. Va

**Tinware Trimmings**
Berger Bros. Co., Philadelphia, Pa

**Tools, Etc.**
North Bros. Mfg. Co., Philadelphia, Pa

**Tools—See Carpenters' Tools**

**Tools—Linemen's**
Smith & Hemenway, New York, N.Y

**Tool Sharpeners**
Royal Mfg. Co., Lancaster, Pa

**Trowels**
Avery Stamping Co., Cleveland, O
Disston, H. & Sons Inc., Philadelphia.
Griffin Mfg. Co., Erie, Pa.

**Tubing—Brass and Copper**
Hungerford, U. T., Brass & Copper Co., New York, N. Y

**Tubing—Heavy Tin**
Dieckmann, Ferdinand, Cincinnati, O

**Varnish**
Buckeye Paint & Varn. Co., Toledo, O

**Ventilators**
Berger Mfg. Co., Canton, Ohio
Burt Mfg. Co., Akron, O
Canton Mfg. Co., Canton, O
Eller Mfg. Co., Canton, O
Friedley & Voshardt, Chicago Ill
Globe Ventilator Co., Troy, N.Y
Merchant & Evans Co., Philadelphia, Pa
Pullman Mfg. Co., Rochester, N. Y
Schoedinger, F. O., Columbus, O

**Wagons**
Sycamore Wagon Wks. Sycamore, Ill

**Washers**
Columbus Bolt Works., Columbus, O

**Washing Machines**
Brammer, H. F., Mfg. Co., Davenport, Ia
White Lily Mfg. Co., Davenport, Ia & Toledo, O

**Water Heaters**
Stolz, F. D., Chicago, Ill

**Wire Goods**
Denning Wire & Fence Co., Cedar Rapids
Pittsburgh Steel Co., Pittsburgh, Pa

# Wants and Sales

**For Yearly subscribers THE AMERICAN ARTISAN will insert under this head advertisements of six lines WITHOUT CHARGE for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, businesses for sale, partners wanted, to exchange, etc. Those who respond to these announcements will please mention that they read the advertisement in**

**THE AMERICAN ARTISAN.**

## BUSINESS CHANCES.

**PATENTS** Hubert E. Peck, 623 F. St., N. W., Washington, D. C., Consulting Expert in Patent Causes. U. S. and Foreign Patents. Send for caflet on "Rejected Patent Application."

For Sale—One of the best paying hardware businesses in town of 1,200 in southern Minnesota. Stock will invoice about $3,000. This year's sales will excel $12,000. We have good reasons for wanting to sell. This will bear the closest investigation. Address E-86, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 24-3t

For Sale—Good clean stock of hardware and tinshop. Will invoice about $5,000. Located in best county seat town in southern Minnesota. Good farming and stock country. Address E-84, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 24-4t

160 acre farm to trade for $3,000 or $4,000 stock of hardware. Land is good, situated three miles from El Dorado Springs, Missouri, one of the greatest health resorts in America. Address all correspondence to Dan W. Mickey, 1211 Harvey St., Omaha, Nebraska. 24-2t

We manufacture and carry in stock a complete line of polished brass and nickel plated boat fittings and supplies. Our prices are right. No. 3 catalogue free upon request. Charles Kaufman, 28 Main St., Oshkosh, Wisconson. 24-1t

For Sale—A well established hardware and implement business in one of the best towns in northeast Nebraska. For sale on account of health. Stock will invoice about $11,000. Will rent store building. Best location in town. Will take good land in part payment if need to. Write E-82, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 23-3t

For Sale—Stock of hardware invoicing $1,000, including a full set tinner's tools, store fixtures, etc. All around man wanted. Best location in state for plumbing work. Good reason for selling. This is a snap bargain and will pay to investigate. Must be sold soon to settle up the estate of partner. Address Dixon & Conway, Elroy, Wisconsin. 23-3t

For Sale—All or half interest in good hardware stock, heating and plumbing, tin shop, etc., in good town of 800 in the garden spot of Illinois. No other general hardware store in the town. Reason for selling, must attend more to land interests elsewhere. A bargain if sold soon. Will invoice around $6,000. If interested address Kesler & Hays, DeLand, Illinois. 23-2t

For Sale or Exchange—Number 2 Standard Visible Typewriter, fine condition (cost $40.00) for good large roll-top office desk—or offers; or would exchange for Bi-Chrome Smith Premier or other standard make typewriter with wide carriage and pay difference in cash. Address R. W. Colver, Seatonville, Illinois. 23-2t

For Sale—Clean hardware stock. Will invoice about $5,000. Located in the best county seat town in northwestern Iowa for business. Good farming and stock country. A snap for some one. Address E 83, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 22-3t

For Sale—One of the best tinning, heating and plumbing shops in a good farming district in eastern Illinois. This is one of the best propositions in the state; a good growing town with plenty of work; good reasons for selling. Do not answer if you do not mean business. Address E 78, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 22-3t

For Sale—One of the best hardware and tin shop businesses in central Illinois. Has been established for thirty years. Will invoice about $8,000. Sales run from $20,000 to $25,000 per year. Good reasons for selling. Will either rent or sell buildings. Town of 2,500. No trades. Address E 81, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 22-3t

For Sale—Good paying hardware business in small town surrounded by wealthy farming country. Minimum running expenses. Will sell all or part of stock of about $4,500. No trades. Satisfactory reason for selling. Address W. F. Goldspohn, Arlington, Wisconsin. 23-2t

For Sale—Fine clean stock of hardware with tin shop in southern Wisconsin. Tobacco country. For cash only. Invoices between $5,000 and $6,000. Good reasons for selling. Address E 76, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 22-3t

For Sale—A stock of hardware and crockery at Whitefish, Montana; also stock of hardware and furniture and farm machinery and tin shop for sale at Eureka, Montana. Address McIntosh Hardware Company, Kalispell, Montana. 22-3t

## TINNERS' TOOLS.

Wanted—Second-hand squaring shears. State width and make. Address M. Reinhardt's Sons, Lincoln, Illinois. 23-3t

Wanted—Following second-hand tools in good condition: 1 beakhorn, 1 blowhorn and 1 double seaming stake. Also Peck, Stow and Wilcox encased small burring machine, large Turner and Stow's encased wiring machine: Will pay good price for second-hand tools if guaranteed as represented. Address E 80, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 22-3t

## HELP WANTED.

Wanted—A good reliable man for tinning and repairing. One who can handle furnace work and do pipe fitting if necessary. We have had our fill of boozefighters. State experience, wages wanted and furnish references from former employers in first letter. No other application will be considered. Address E. J. Ketchum, West Duluth, Minnesota. 24-3t

Wanted—Second-hand tinner's tools with O. K. brake. Address F. A. Reynolds, 52 Lincoln Park Blvd., Chicago. 24-3t

Wanted—Experienced man to run well drill. Steady work, good wages the year round. Address W. H. Drinkern, Beloit, Kansas. 23-2t

Wanted — Tinner and furnace man (mostly all indoor work). Good steady sober man. State wages wanted and experience. Steady work the year around. Address 713 Water St., Sandusky, Ohio. 22-3t

Wanted—One good all around tinner. Steady work the year around and good wages. Address P. H. Bayley, Sidney, Ohio. 22-2t

Wanted — A first-class tinner and plumber. One who is capable of taking charge of shop and drafting patterns. To such a man will give the very best of wages. Give reference in first letter. German preferred. Address George L. Rose, Bluffs, Illinois. 22-3t

## SITUATIONS WANTED.

Situation Wanted—By a first-class tinsmith and furnace man. Steady, sober and reliable. Can draft patterns. Fifteen years' experience and married. Want a job by January 15th, 1908. Best of references. Prefer western Iowa or eastern Nebraska. Address E-85, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago.

Position Wanted—By an all around tinner and furnace man. Twenty-six years' experience. Married; steady and reliable. Want steady work. Address, stating wages paid, E 77, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 22-3t

Wanted—Position, by up-to-date tinner, plumber and furnace man. Stricely sober and reliable. $15.00 per week. Address E 79, care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 22-3t

## SPECIAL NOTICES.

### IRON PIPE COUPLINGS

We buy these, all sizes, any quantity. Clean, rusty or leaded. GWILLIAM SUPPLY CO., 1339 Ridge Ave., Philadelphia, Pa. 21-14t

### FOR SALE

**Up-to-date hardware store with tinshop; established ten years. Will invoice about $3,500. On West Side, Chicago. Address, "West Side," care THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago. 12-ufn**

### WANTED—A PARTNER

**in plumbing and tinning business, now established at Lawton, Oklahoma. The right party, skilled in business, with good reference, can secure interest in a splendid established business with very little money. Write for full information to JAMES M. POWERS, Lawton, Okla. 16-ufn.**

### FOR SALE

Fine clean stock of hardware with tinshop and plumbing shop. Attractive modern store, well arranged with agencies for some of the very best standard lines. Business established 25 years. Located in progressive county seat in Eastern Nebraska. Business for sale for cash only, and sold on account of death in family necessitating a change of residence. Stock invoices about $10,000 and sales run $30,000 yearly. Address, B.-83, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 21-ufn

### Situation Wanted

First class stove salesman in habit of handling large trade. Established business in Pennsylvania, West Virginia and New York. Best of references. Address K-6, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 22-3t

**IT WILL PAY YOU to enter into Competition for the**

# $100.00 IN GOLD

**for the Annual Prize WINDOW Competition of The American Artisan.**

Warwick Mills, Centerville, R. I., using 46 30-inch Burt Ventilators.
Burt Ventilators are installed on saw tooth roofs of The Grinnell Mfg. Corporation, New Bedford, Mass., 35 30-inch; Indiana Union Traction Co., Anderson, Ind., 36 18-inch; Jones & Lamson Machine Co., Springfield, Vt., 80 20-inch; Yale & Towne Mfg. Co., Stamford, Conn., 20 18-inch Burt Ventilators.

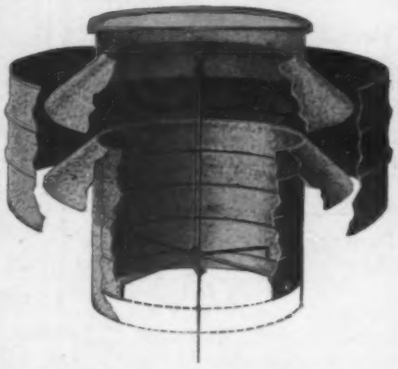
## Workmen Are Never Drowsy

where ventilation and light are good. Therefore more good work is the result.

The saw tooth roof is the best roof for good lighting—and along the ridge of each roof is a row of Burt Ventilators, put there for good ventilation, which is as necessary (if not more so) than daylight.

# Burt Ventilators

have the greatest ventilating power of any. They are made from the very best of material, strongly braced and will give lasting service; made with Metal or Glass Tops as desired, provided with Patent Sliding Sleeve Damper, Storm and Dust Proof, open or shut, and adjustable to any degree of opening. Can be furnished with fusible link connection to close damper automatically in case of fire.



Notice Sliding Sleeve Damper. Patented.

Send for our new eighty-page catalogue, giving fine illustrations of Mills, Factories, Shops, Foundries and Residencies where Burt Ventilators are in successful use.

**The Burt Mfg. Co., 650 Main St., Akron, Ohio.**

*The Largest Manufacturers of Oil Filters and Exhaust Heads in the World.*


## SPECIAL NOTICES.


### WANTED

Experienced Stove Salesman for Wisconsin, Minnesota and Dakota. State salary and experience. Address K-8 care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 23-1t

1907 Historical Wholesale Hardware Directory
**Price, $1.00 Postpaid**
Gives date established, territory covered, class of goods handled, whether incorporated or not, etc. Hardware Dealers' Magazine, 253 Bdwy., N. Y.

### SALESMAN WANTED

for Chicago and vicinity. One acquainted with Retail Hardware Trade and familiar with builder's hardware. Address stating full particulars. K-7, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago.

MANUFACTURERS' AGENT representing one of the leading stove and heater manufacturers is desirous of acquiring several other good lines for the State of Michigan. Address K-5, care The American Artisan, 69 Dearborn Street, Chicago. 20-4t

### In Every Town

I would like one reputable hardware man or tinner to manufacture for our mutual benefit a patented device made of galvanized sheet steel to supply the trade in his territory. Retails from $1.00 up. Address, R. Merrill, Merrill Bldg. Milwaukee, Wisconsin. 16-9t

### WANTED

for 1908: Experienced stove salesman for the states of Ohio and Indiana, to sell a strictly up-to-date line of steel and cast ranges and Oak stoves. We are offering the best commission proposition in the country. Must have acquaintance with the trade and come well recommended. Address THE INDEPENDENT STOVE COMPANY, Detroit, Michigan. 24-1t

### WANTED

A traveling salesman to sell Houshold and Built-in Refrigerators. Must be a reliable man of experience in this line. Only those with good references and record of experience need apply. Address K-14 care THE AMERICAN ARTISAN 69 Dearborn St., Chicago.

### WANTED

Two good pattern fitters to go to work January 1st.

Address K-9, care THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago. 24-1t

### WANTED

Second Hand Steel Range Machinery. Must be in first-class condition. Address K-11, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 24-1t

### WANTED

A good selling specialty line for Oklahoma territory. Address K-12, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 24-3t

# Selling Metal Ceiling

Perhaps you think it would be just as much work to get an order for Lock Joint Metal Ceiling as for the ordinary Lap-Joint Ceiling.

Perhaps you think the Lock-Joint advantages are mere talking points? They are that, and more, too. Lock-Joint has genuine advantages. Where a first-class ceiling is wanted we have no trouble actually demonstrating the superiority of the Lock-Joint construction. "Dust-proof and air-tight" is an invincible argument, absolutely proven.

Can't you see you could make more money, and more easily, if you handled Lock-Joint Metal Ceiling.

Better write to-day for Catalogue "D."

**S. Keighley Metal Ceiling & Mfg. Co.**

**PITTSBURGH, PA.**

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60 YEARS' EXPERIENCE

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**BLACK Silk STOVE POLISH** is the NAME

**The Only Kind**
that you dare
**Buy in Quantity**
Age Actually Improves It
**Guaranteed**
Not to dry out or rust through can.

MADE AT STERLING ILL., U.S.A.
The Home of Black Silk Stove Polish


## SPECIAL NOTICES.

### WANTED

**by a Stove Salesman with years of experience in Nebraska, Colorado and Utah a first-class line of stoves and ranges for that territory for season of 1908. Can furnish excellent references. Address Stoves & Ranges, Box 1178, Lincoln, Nebraska.** 24-3t

### Situation Wanted

A man who has had sixteen years' practical experience selling and installing hot air furnaces, steam and hot water boilers in the retail trade, desires to represent some good house on the road. Can also handle a line of stoves. Address K-13, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 24-1t

### Situation Wanted

By a man with 22 years' experience as a practical sheet worker. Would like to represent a good sheet metal house on the road. Thoroughly understand the sheet metal business in all its branches. Address K-10, care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago. 24-1t

### For Sale—Cheap

If taken at once, an up-to-date Tinshop including eight foot cornice brake. Fall Stock. Address J. G. LARSON, 304 South Main Street, Bloomington, Illinois. 24-1t

### FOR SALE

Set of Peck-Stow Tinners' Tools. These are new tools with standards. For list and price, address with stamp HAWKEYE PUMP CO. Washington, Iowa. 24-ufn

### FOR SALE

Hardware stock invoicing about $7,000 in a small Illinois town. Doing a good business. Good reasons for wanting to sell. Address, B-93, care of THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago. 18-4t.

### MANUFACTURERS' AGENT

Now representing a leading line of stoves and ranges wishes to acquire a good **wood** and **coal furnace** for Wisconsin and Upper Peninsula of Michigan. Address K-15, care THE AMERICAN ARTISAN, 69 Dearborn Street, Chicago. 24-ufn

### Patent For Sale

A Patented Campaign Novelty

Collapsible tin horn sells for $7.00 per gross, can be made for $3.00 per gross. The patent and complete outfit of machinery for sale or trade. Write us for particulars. GALESBURG CORNICE WORKS, Galesburg, Illinois. 20-2t

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**The American Artisan and Hardware Record**
**69 Dearborn Street, CHICAGO**

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**Ticonderoga Flake Graphite** reduces friction losses in cylinders, bearings, and at all friction points. Get free sample 18-C.
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**"BRAUER'S"**

is the best place to buy Stove Dealers' Supplies, Castings and Stove Repairs?

Prices Are Lowest. Prompt Shipment.

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No. 45 N. 2nd St., Philadelphia

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**The LEIBRANDT & McDOWELL STOVE CO.'S STOVES and REPAIRS**

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MANUFACTURERS OF

**"SUPERIOR"** Improved Exhaust Tumbling Mills, Dust Arresters, Hard Iron Stars, Wrought Iron Chaplets, Plain and Tinned, Stove Rods, Furnace Rods, Chair Rods, Stove Scrapers and **all kinds of NICKEL PLATED STOVE TRIMMINGS.** Send for catalogue.

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for it is an expensive adjunct to any foundry. I manufacture "Everything for the Foundry."

Prompt shipment—all orders receive immediate attention.

STEVENS' CARBON BLACKING will peel any casting that can be peeled. It suits everybody. Sent subject to approval.

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**TIME IS MONEY**

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**THE RIGHT KIND**

of Oven Thermometer is

THE "Acme"

THE "Acme"

MADE BY **EVANS STAMPING AND PLATING CO.** TAUNTON, MASS.

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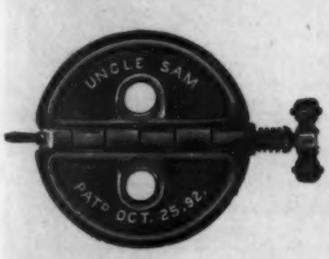
NONE BEATS THE

**Uncle Sam Damper**




**It is light, easily adjustable and enduring.** The plate is stamped from best nickeled steel and is corrugated to prevent warping The stem consists of forged steel sharply pointed, notched to engage edge of plate, and is held absolutely in place.

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For Stoves and Heaters

The Cleveland Castings Pattern Co.

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First-Class in Wood and Iron

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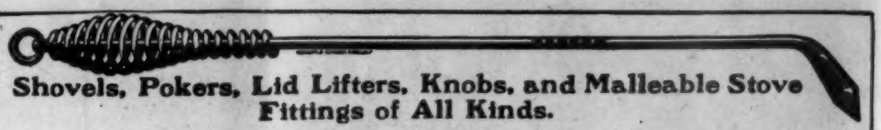

Shovels, Pokers, Lid Lifters, Knobs, and Malleable Stove Fittings of All Kinds.

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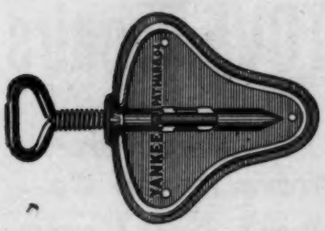

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3 inch to 8 inch

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Easiest to Get In or Out

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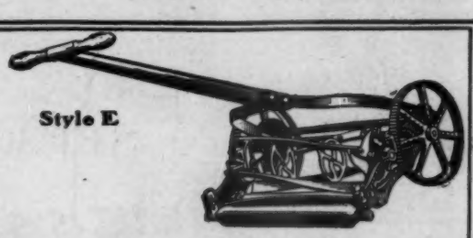

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**The Big 4 Combination in Lawn Mowers**

Send for circular and prices.

**The Genuine PHILADELPHIA Lawn Mowers**

Unsurpassed Why Perfection

Unequalled Why Simple

Unrivalled Why Durable

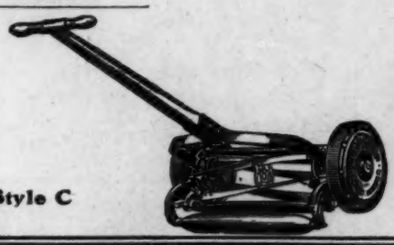
all have the words Philadelphia Lawn Mower Co. cast on the wheels of the mower. See you make no mistake in ordering.

**THE PHILADELPHIA LAWN MOWER CO.**

3101 to 3109 Chestnut Street, PHILADELPHIA, PA., U. S. A.

Are made in
6½ to 12 in. wheels
3 to 8 blades
17 style hand
5 horse mower

Standard Mowers the world over.



Style C

Style K

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from sheet metals at the very lowest figures consistent with good work and materials.

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Made from Galvanized Tin and Painted Tin
**Storm, Rust and Fire Proof**
Do you want to increase your business? THIS IS YOUR OPPORTUNITY. Write for catalogue samples and prices.
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THE BAR-KEEPER'S "FRIEND"
FOR REMOVING, CLEANING AND POLISHING
**BAR FIXTURES, DRAIN BOARDS**
AND ALL
Tin, Zinc, Brass, Copper, Nickel and all Kitchen and Plated Utensils. Glass, Wood, Marble, Porcelain, Etc.
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THE BAR-KEEPERS' FRIEND.

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**Marble, Glass, Nickel, Brass, Copper, Tin and German Silver**
can all be cleaned and polished with it easier than with anything else.
**Price 25c per lb.**
Highest award:—Chicago World's Fair, 1893; Louisiana Purchase Exposition, St. Louis, Mo., 1904.
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**PERFORATED METALS**
OF EVERY DESCRIPTION AND FOR ALL PURPOSES
FOR SCREENS OF ALL KINDS
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in Metal Ceilings, Side Walls and Tiling for use in Stores, Factories, Homes and every kind of a building, old or new—if you sell NORTHROP Steel Ceilings and Walls.
**Northrop Steel Ceilings and Walls**
are not only the *finest made* at any price, but they are also the *best known* line because *the most extensively advertised* line.
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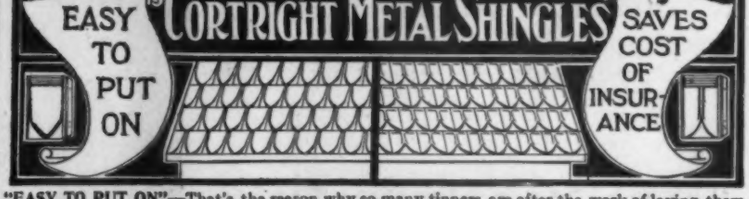
EASY TO PUT ON
**CORTRIGHT METAL SHINGLES**
SAVES COST OF INSURANCE

"EASY TO PUT ON"—That's the reason why so many tinners are after the work of laying them. A plain tin roof needs a lot of studying out, cutting, soldering, labor, but a Cortright Roof is just plain sailing, every piece fits each other so perfectly that the work is done and the profits pocketed in no time. Send for catalog.
**CORTRIGHT METAL ROOFING CO., Philadelphia and Chicago**

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is a little thing to look for, but a big thing to find; it appears on all genuine
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Tin and Terne Plate
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# SIX STANDARD PRODUCTS

USED BY ALL THE LEADING STOVE AND RANGE MANUFACTURERS:

W. Dewees Wood Company's Patent Planished Iron.
Wood's Cleaned Refined Smooth Finish.
Hammered Polished Steel.
Wood's Oak Stove Body.
Wellsville Polished
Range Steel.

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**The value of a good Tin Roof cannot be overestimated**

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# "Merchant's Old Method"

**Is a Reliable and Dependable ROOFING TIN**

Why encourage **Cheapness** in the roof more than other parts of a building? The roof is just as important as the foundation and should last as long.

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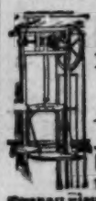

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Improved Quick and Easy, Rising Steam, Electric and Hand Power.

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Russia finish, pat. lock
**STOVE PIPE**

It is made of a very high grade of uniform color Blue Polished Steel, and is coated to prevent rusting. Made in all sizes.

Packed twenty-five and fifty joints to crate. For sale by the jobbing Hardware Trade throughout the United States.

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In the event your jobber does not handle this pipe send your inquiries to us.

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NEW BRIGHTON, PA., U.S.A.
MANUFACTURE
**A Full Line of Horse Nails**
Send for Catalogue, Prices & Samples.

FREIGHT CHARGES are sometimes heavy charges. *We can*

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Our stock of
SHEET COPPER
is larger and more complete in variety of sizes and kinds than that of any manufacturer in the country, comprising an assortment of
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TIME required in erection of metal ceilings tells what profit is made on the job. If the construction of the plate is poor, they won't fit and will require more time and care and will produce a badly appearing job, as a result.
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MANUFACTURERS OF
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STEEL CEILINGS
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Combined Punch and Squaring Shear

(Hand Power)
This Combined Punch and Squaring Shear is designed especially for Range Manufacturers, for squaring, trimming or slitting, or for cutting rectangular or triangular holes of any size in the center of large sheets. We build a complete line of Shears, Punches and Bending Rolls, all sizes, for either hand or belt drive. Write for Catalog "F."
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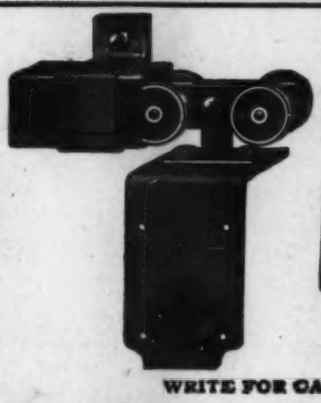
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SPARROW PROOF
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Lateral Adjustment
Made to Suit Door of Any Size or Weight
WRITE FOR CATALOG OF DOOR HANGERS
The Richards Manufacturing Co., AURORA, ILLINOIS.

# TUBING AND TUBING ELBOWS

1, 1¼, 1½ inches in diameter

With Lock Seam and Galvanized After Formation.
Heaviest Tin Speaking Tube on Market.
Elbows made of One Piece of Metal.

**Heavy—**
**—Tin**

**Galvanized After Formation**

1, 1¼, 1½ inches in diameter

For Ice Box Drains, Portico Work, Speaking Tubes, Lighting Systems, Incubators. Ask for prices, state *quantities desired.*

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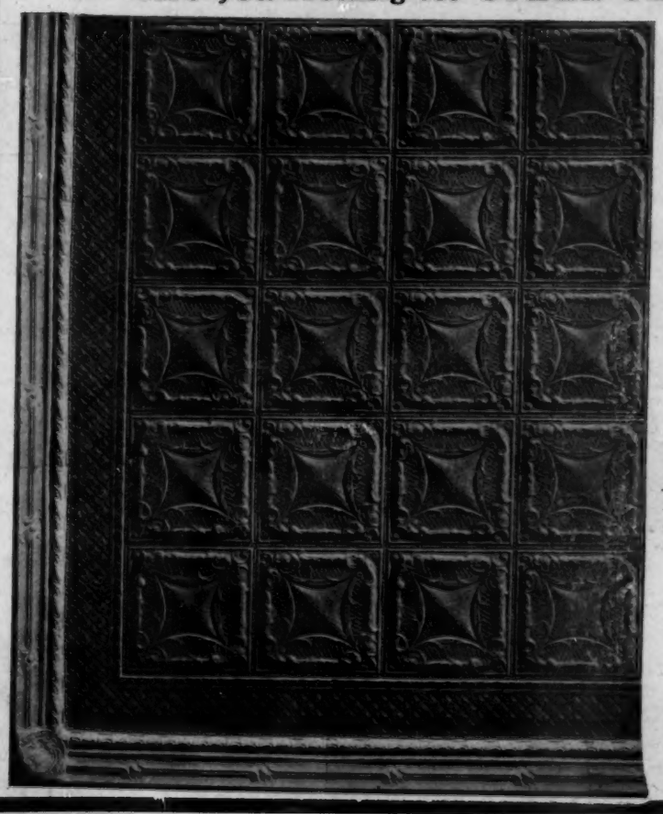
**Station B., CINCINNATI, OHIO**

**Mr. Sheet Metal Worker:**
**Are you looking for STEEL CEILING orders?**



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**will help you get it**

The most complete line of artistic Steel Ceilings in existence. Get our catalog now and get posted—it's profusely illustrated. Ask for **D—8**

Let us tell you how we help you to get the business. Write to-day.

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SPECIALTIES: **Steel Ceilings, Roofing, Siding, Cornices, Skylights, Ventilators, etc.**

Design No. 8248

# Wheeling Metal Ceilings

**FIRE PROOF**

Practically Indestructible. The Most Artistic Interior Finish designed for Rooms of all kinds

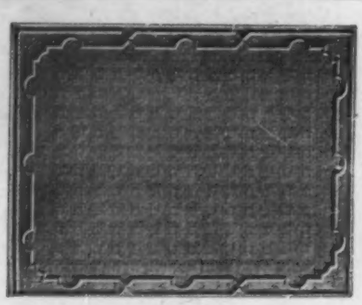
MODERATE IN COST

Manufactured by

**WHEELING CORRUGATING CO.**

(Makers of Dixie Metal Shingles)

**WHEELING WEST VIRGINIA**



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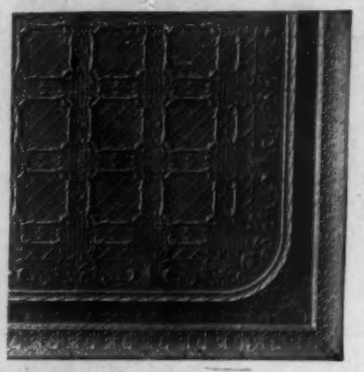
**BRANCH OFFICES AND WAREHOUSES**

New York City.....47 Cliff St.
Chicago.....23-25-27 N. Clinton St.
St. Louis.....1006-8-10 Spruce St.
Philadelphia..402, 404, 406 Race St.
Boston, Mass..132 and 134 Pearl St.
Chattanooga, Tenn.....King St.



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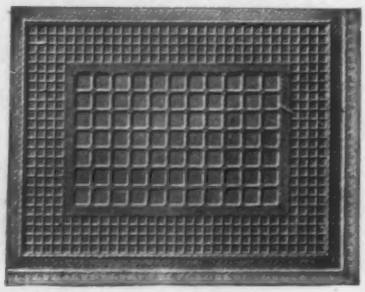
Many Sheet Metal Workers are Taking up the Erection of

**Metal Ceilings**

for the reason that it gives them indoor work during Inclement Weather.

Send Measurements and ask for Estimate

WE FURNISH DRAWINGS



Design No. 8046

# Plecker's *Corrugated* Expanding *Conductors*

Have no Cross Seams. Made of Galvanized Iron in ten-foot lengths.

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Will not burst, when full of ice.

# CLARK, QUIEN & MORSE, PEORIA, ILL.

## "Target and Arrow Old Style Brand Roofing Tin"

A Moline, Illinois, firm of architects writes us:—

"We never neglect to specify your tin. Local roofers say 'you are married to N. & G. Taylor'. It is the *tin* we are married to."

Satisfaction with our tin: that is the keynote of our success with architects and roofers. So much tin is worthless, no wonder they hold fast to the brand that lasts on the roof.

OLD STYLE
REGISTERED
TRADE MARK
N.&G.TAYLOR CO
PHILADELPHIA

Fac-simile of the Trade-Mark stamped on each sheet of the "TARGET-AND-ARROW Old Style" tin. Registered in U. S. Patent Office.

We now use the old name for our brand, "TARGET AND ARROW" rather than the brand "OLD STYLE", which has been imitated in every possible way by other tinplate houses. The stamp on the sheets remains exactly the same as we have always used.

"This is the same durable quality of tinplate today that we have been selling for upwards of fifty years."

"For sale by all leading wholesale hardware jobbing houses throughout the country."

"Orders from those in the trade sent direct to us are given prompt attention."

**N. & G. TAYLOR COMPANY**

Established 1810 Philadelphia

EVERYTHING YOU NEED IN YOUR FOUNDRY

**We are Headquarters for**

Foundry Facings, Plumbago, Graphite, Putty and Supplies of Every Description. In fact—

**Everything You Need**

in your foundry.

**Get Catalog No. 40-A NOW.**

Established 1874

**THE S. OBERMAYER CO.**

Cincinnati Chicago Pittsburg

# Study This Design

Notice how deep it is, how clear and sharp every detail is brought out. That is only one of the sixteen reasons why you should use our Ceilings. The other fifteen are brought out in our big catalog. Send for it—will help you to get the orders.

**F. O. SCHOEDINGER, Columbus, Ohio**
**146 N. Third Street 148**

# Perfection In Metal Ceilings

THE GOODS MANUFACTURED BY

# FRIEDLEY-VOSHARDT CO.

ARE IN A CLASS BY THEMSELVES
WRITE TO-DAY FOR CATALOGUE AND PRICES

**194-204 Mather Street - Chicago, Ill.**

"Invisible Joint"
TRADE MARK

# METAL CEILINGS
**AND WALL FINISH**

**Represent the highest achievement in mechanical construction and artistic merit. Perfect in fit, quality and ornamental detail.**

LATEST ARTISTIC DESIGNS IN
**French Renaissance, Louis XIV, Romanesque, Gothic, L'Art Nouveau, Colonial.**

ESTIMATES PROMPTLY SUBMITTED

SEND FOR BOOKLET AND CATALOG

**CORNICES, FINIALS, SKYLIGHTS, METAL WINDOWS, ETC.**

# MILWAUKEE ARTISTIC METAL CEILING CO
MILWAUKEE-WISCONSIN-U.S.A.

# P. C. JONES & COMPANY
**HARDWARE, HEATING AND TINWARE**
TOLEDO, OHIO

write under date of June 20th, 1907: "We would hardly want to try to get along without THE AMERICAN ARTISAN. It would be a little like trying to get along without a plumber or furnace man."
6-7

## THE BEST TOOL IN THE SHOP

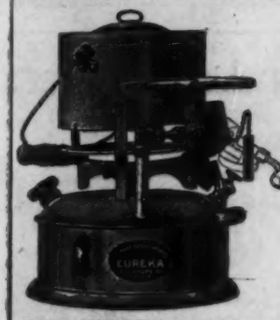
is the perfect tool--the one that conserves time, labor and expense. It is dependable, always ready for business and works satisfactorily. A. C. & L. Fire Pot or Torch is often referred to as "the best tool in the shop" and there is good reason for it. It is the outgrowth of over twenty years' intelligent, concentrated effort; it saves half the gasoline ordinarily required; has more points of advantage than any other make and is in many ways superior. A booklet replete with information concerning our line and well worth preserving for reference, is yours for the asking.

No. 1 Fire Pot, $6.00 Net.

Jobbers supply at factory price, or we will ship direct if cash accompanies the order.

**CLAYTON & LAMBERT MFG. CO.**
DETROIT, MICH., U. S. A.

## HOTTEST ON EARTH



LET US PROVE IT

No. 6 EUREKA. Price each, $6.00 Net
No. 14 EUREKA Price each, $4.50 Net
Jobbers sell at factory price.

**THE TURNER BRASS WORKS**
26 Park Avenue Sycamore, Ill., U. S. A.

# It Will Pay You

**to illustrate your advertisements in your local papers. A sheet of comic advertising cuts sent on application**

These cuts are furnished with catchlines showing their application to the hardware, stove and tinners' trades.

Address

**DANIEL STERN**
69 Dearborn St., - CHICAGO

EXCELSIOR SQUARING SHEARS

## TOOLS FOR SHEET METALS

INCLUDING

Tinners' and Roofers' Tools, Shears, Punches, Presses and Dies. Can-making Machinery

MADE BY

**Niagara Machine & Tool Works**
BUFFALO, N. Y.

## TWO MORE REASONS WHY STEEL BRAKES EXCEL OTHERS WILL FOLLOW

The strength of steel being approximately three times that of iron it is clear that much heavier work can be done with the same effort on a brake so constructed.

Another quality of steel is that it will not warp like wood nor get sprung as iron will, thus assuring a straight and perfect bend always.

A postal will bring you net prices F. O. B. your city.

**DREIS & KRUMP MFG. COMPANY**
Halsted and 32nd Street, CHICAGO

## EARL'S IMPROVED REVOLVING VENTILATOR

Runs in a self-lubricating bearing that is not affected by heat or cold, and never requires any oil or grease. The Fan revolves without any noise, producing a current of air upward, which positively prevents any down draft. Write for circular.

**BERGER BROS. CO.**
TIN PLATE, SHEET IRON, ETC
PHILADELPHIA

## Blick No. 3 The Best Box For Rural Free Delivery

**Be Just With Customers**

Sell them Blick No. 3 boxes. They are big ones, 6½ x 8½ x 19 inches. Made of heavy galvanized steel. Painted green, the new government color. Same shape and color as city boxes. Have Positive-Locking Flag Signal, Automatic Latch, Watertight Quality. Every box tested, every box right, every box warranted. They will get the business. You better get them. Order now.

$5.88 per Doz.

**Blick-Williams Co.**
Indianapolis, Ind.

## "WAY AHEAD"

Of the grindstone or any other apparatus for sharpening table or kitchen cutlery or edge tools of every kind are our

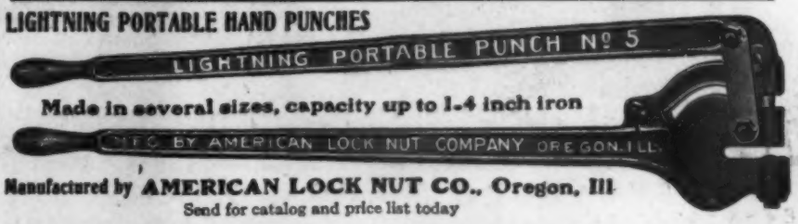
Hand and Foot Power

**Grinders & Tool Sharpeners**

Four sizes. Needed in every home—every day in the year. Every grinder guaranteed. Be sure; Get our catalogue with Discounts to the trade—to-day.

**ROYAL MANUFACTURING CO.**
108 E. Walnut Street, Lancaster, Pa., U. S. A
New York, 176 Fulton Street, Herbert Parser & Co., Managers
Chicago, 113-115 Michigan St., W. G. Curtis & Son, Managers

## LIGHTNING PORTABLE HAND PUNCHES




Made in several sizes, capacity up to 1-4 inch iron

Manufactured by **AMERICAN LOCK NUT CO., Oregon, Ill**
Send for catalog and price list today

**Freezes two flavors of Ice Cream or an Ice or Sherbet and Ice Cream at one and the same time in one freezer — something entirely new, never done before.**

"American Twin"

"Lightning"

"Blizzard"

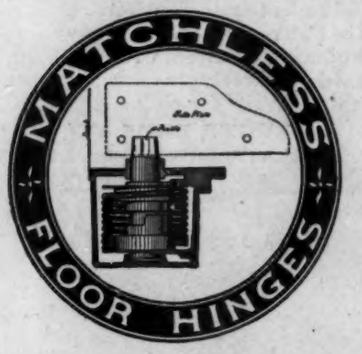
**THEY ARE**
Well Advertised,
In Demand,
Easily Sold,
Satisfactory in Use,
Of Known Reputation.

**THEY EXCELL IN**
Easy Running,
Quick Freezing,
Economy,
Convenience,
Practical Results.

**THE BEST ICE CREAM FREEZERS** in practical use, because convenient, compact in size, use smallest amount of ice and salt, run easily, freeze quickly, produce smoothly frozen creams or desserts with little bother and less work

**Sold by leading jobbers.** **Catalog sent free.**

## North Bros. Mfg. Co., Philadelphia




The Hardware Merchant who sells good goods

SELL ORIGINAL

## MATCHLESS

Floor Hinge, Jamb Hinges, and Hardware Specialties.

If your Jobber cannot furnish them, write us.

LAWSON MFG. CO.
40 Dearborn Street, Chicago, Illinois.

## SPERRY'S SUGAR KETTLES

**Light, smooth, full measure and guaranteed perfect. Made from original patterns. Metal, the right kind in the right place. Ask your jobber for them or write us.**

**D. R. SPERRY & CO.** HOLLOW-WARE FOUNDERS **Batavia, Ill.**

## We Have a Hardware Delivery Wagon That You Can Depend Upon

Body 20 in. from the ground; full width; regular heighth wheels; and yet will turn short.

***EASY TO LOAD AND UNLOAD***

Durability guaranteed.
Complete catalogue on request.
Mention this paper and address in full.

SYCAMORE WAGON WORKS
109 Edwards Street, SYCAMORE, ILL.

## PULLMAN SASH BALANCES

**Are you selling them?**

**IN USE EVERY-WHERE**

Send us your orders

**PULLMAN MFG. COMPANY**
**ROCHESTER, N. Y., U. S. A.**

**EVERY GALLON GUARANTEED**

**BUCKEYE**

## MIXED PAINTS

**are the Paints you should handle.**

Made from Pure Linseed Oil, White Lead, Oxide of Zinc and Highest Grade Coloring Material

Send for Printed Matter.

**Buckeye Paint & Varnish Co.**
TOLEDO, OHIO

## THE HAWKEYE

**Grain Grader and Seed Cleaner**

**A better machine could not be made.**

**Price REASONABLE.**

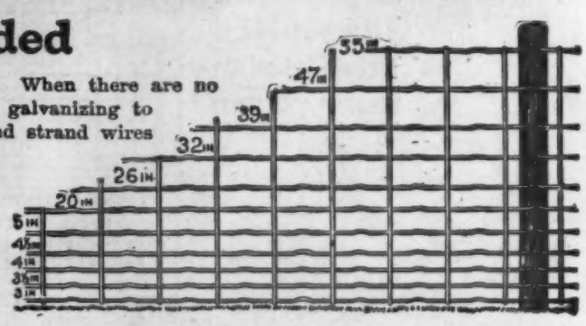
**Sold on exclusive agency plan only.**

**PAXTON & GALLAGHER CO.**
**OMAHA, NEB.**
**Sole Agents for Nebraska**

# "Pittsburgh Perfect" Fences

## Electrically Welded

When the joints are electrically welded there are no wraps. When there are no wraps there is no chance for moisture to accumulate, for the galvanizing to crack, for the wire to be rusted. Stays cannot slip; stay and strand wires become one piece when the union is made. These fences




**WILL LAST LONGER THAN ANY ON THE MARKET**

**WRITE FOR CATALOG**

## Pittsburgh Steel Co., Pittsburgh, Pa.

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# Disston Hand Book on Saws.

*Yours for the Asking*

This new edition contains 208 pages of useful, practical information—articles on The Making of the

**DISSTON SAWS, TOOLS AND FILES,**

giving the progressive steps in their manufacture, a large number of illustrations of the works, together with TREATISES on the CARE and USE of Saws, etc.

## HENRY DISSTON & SONS, Inc.

**KEYSTONE SAW, TOOL, STEEL AND FILE WORKS**
**PHILADELPHIA, PA.**

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**STRAP & T HINGES**
**Pressed Steel Shelf Brackets**

**BUTT HINGES**
**Barn Door Hangers and Track**

Our Planished Steel **STRAP and T HINGES** are now all made on Automatic Machinery—Every one is as true as a Die. Our **BUTTS** are unequalled in Workmanship and Finish, All our Goods Guaranteed—**BEST IN THE WORLD.**
(And they cost no more.)

## THE GRIFFIN MFG. CO., - Erie, Pa.

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# AKRON ECLIPSE LEVELS

All glasses in **Akron Eclipse Levels** are carried on elastic bearing and enclosed in heavy glass tubes and are almost unbreakable.

**SEND FOR CATALOGUE ILLUSTRATED IN COLORS**

**The BAKER McMILLEN CO., Akron, Ohio, 13 Bowery St.**

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# Magic Pattern Rule Will Lay Out Patterns

For any size and angle of elbows in three minutes' time. Can also be used as Straight-edge Rule, Circumference Rule and Trammel. Should be in every Tinshop. Will save its cost in a few weeks. Thousands are in use and every one giving excellent satisfaction.

**Price, complete in a nice Wooden box with Chart, $4.00 net cash**

**LUFKIN RULE CO., SAGINAW, MICHIGAN** (Mention THE AMERICAN ARTISAN)

**Clipper Lawn Mower Co.** DIXON, ILL.

Manufacturers of Hand and Pony Mowers, also Marine Gasoline Engines from 2 to 8 horse power.

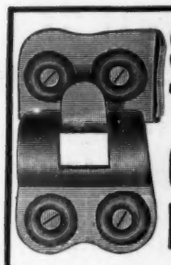
**THE MOWER That will kill all the weeds in your lawns**

If you keep the weeds cut so they do not go to seed, and cut your grass without breaking the small feeders or roots, the grass will become thick and the weeds will disappear. **The Clipper will do it.** If you wish Clippers, send in your orders.

**THE UMBRELLA CLOTHES BAR**

**32 FEET DRYING SPACE**

THE MARTCROSS CO., 40 Dearborn St., CHICAGO



**SEE THAT GUIDE FLANGE?**

It's found only on

**GOSSETT DETACHABLE SUSPENSION HINGES**

It makes storm windows hung with these hinges easy to place or remove; no ladder or tools needed. They can be opened at the bottom for ventilation. Sold by Hardware Jobbers. Sample pair free.

**F. D. KEES MFG. CO.**
522 5th St., Beatrice, Nebr.

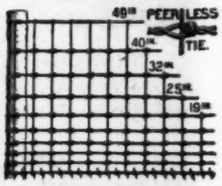
**100 TINNERS' PATTERNS**

COMPLETE FOR **$1.00**

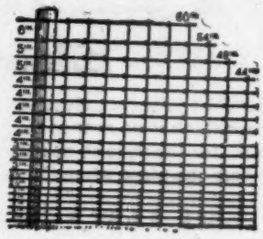
Sent Postpaid on Receipt of Price.

**DANIEL STERN,**
69 Dearborn St. CHICAGO.

**THE DENNING FENCE**




For yard and pasture has no equal. Our Peerless Cabled Fence with barb wire in the bottom turns hogs, absolutely. We beat the world on Poultry Fence. We make perfect Barb Wire. We ship mixed cars Woven Fence, Barb Wire and Nails.




Write for Catalog and Prices.

**THE DENNING WIRE & FENCE CO., Cedar Rapids, Iowa.**

# The White Washer

**The Greatest of all**

**Momentum Washers**

**A Few Points:**

Double Ball Bearing Fly Wheel under the Tub. Highest Speed. Easiest Running. Quicker Reverse. Foot Power Attachment. Tub opens when machine is in full motion. Five Years' Guarantee, and numerous other points.

*Sold to only one dealer in each town.*

**Get Busy--Write Today**

**WHITE LILY MFG. COMPANY**
**DAVENPORT, IOWA**

**HAVE YOU A RING IN YOUR TAIL?**

I have. My name is **The "Ring Tail Red Devil."** I hang up by the tail. My handle don't warp. My blade is always keen. I am put up in an antiseptic case. I am a good shaver, not a poor one. Have you got me in stock? If not, order a sample and you will not keep me, the other fellow will want me. **THE GENUINE "RED DEVIL" RING TAIL RAZOR.**

**SMITH & HEMENWAY CO., 108-110 Duane St., New York City**

# Iwans' Volcano Revolving Chimney Top

Sizes 6 to 12 inches. Sold by jobbers of Hardware and Tinners' Supplies.

Notice one of its **Strong Features.** The upward sloping opening in back of hood creates a constant upward draft, no matter how depressing the atmosphere.

You need it for some of your customers' chimneys.

Send postal for catalogue.

**IWAN BROTHERS**
**Mfrs. of Hardware Specialties**
**STREATOR, ILL.**

# "LET THE ROYAL BLUE WASH FOR YOU"

A phrase widely advertised in all principal farm papers and magazines, and which coupled with the many superior features of the "Royal Blue" washer, is creating a strong and ever increasing demand for this splendid machine. **We locate the customer, you make the sale.**

**MR. DEALER:** Carry the "Royal Blue" in stock and be prepared to take care of your customers. The discerning public does not want imitations, it wants the genuine article, the "Royal Blue", the best that's made.

**Sold only on the Exclusive Agency Plan.**

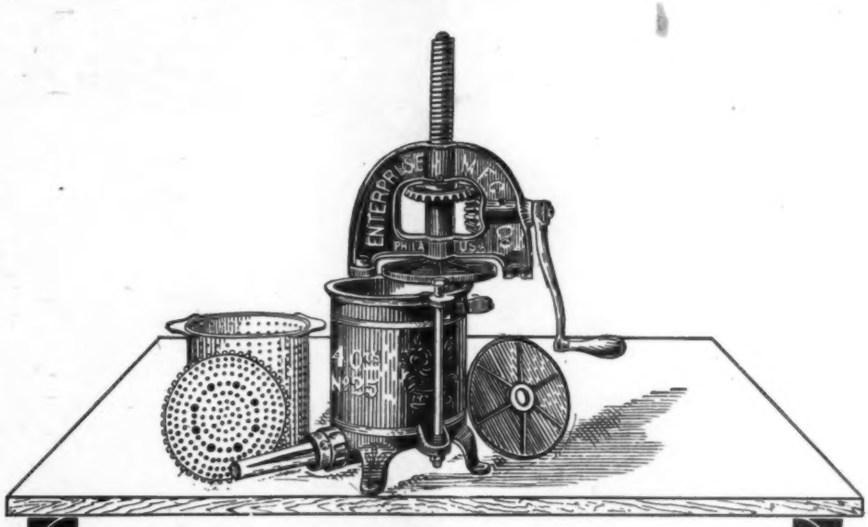
THE

## ROYAL BLUE

**Has Revolving Anti-Friction Steel Cogs**

Is Strong, Durable, Runs Easy, Washes Clean, does not Tear the Clothes and is fully Guaranteed.

## H. F. BRAMMER MFG. Co., Davenport, Iowa.




The great secret of successful enterprise is to prepare in time to push the *right thing* at the *right time.* Just *now* get ready for selling the famous **Sausage Stuffer and Lard Press** marked:—

## "ENTERPRISE"

You know its good points. So do your customers. The whole story is on page 45 in our catalogue. Have you a copy handy? If not, write

**The Enterprise Mfg. Co. of Pa., Philadelphia, U. S. A.**
**New York, 21 Murray St. San Francisco, 438 Market St.**

DEC 16 1907



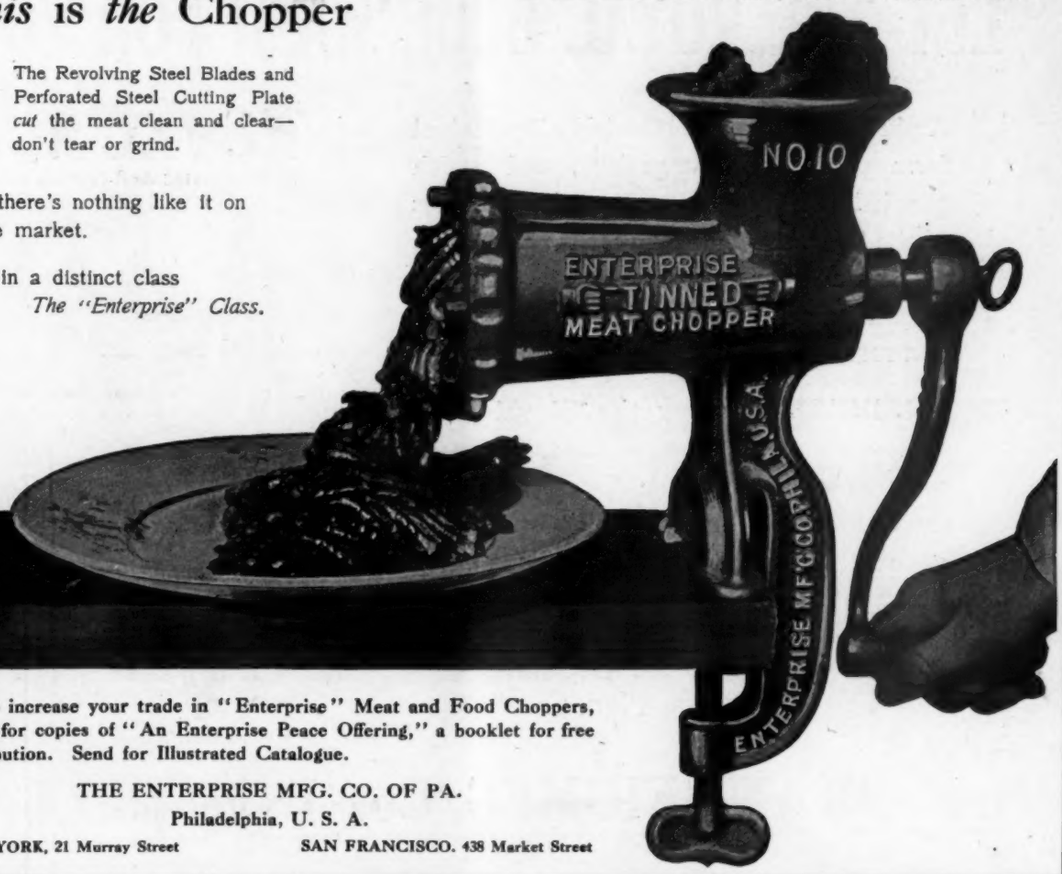

# *This* is *the* Chopper

35 Sizes and Styles for Hand, Steam and Electric Power

The Revolving Steel Blades and Perforated Steel Cutting Plate *cut* the meat clean and clear—don't tear or grind.

*No*—there's nothing like it on the market.

It is in a distinct class
*The "Enterprise" Class.*




**To increase your trade in "Enterprise" Meat and Food Choppers, write for copies of "An Enterprise Peace Offering," a booklet for free distribution. Send for Illustrated Catalogue.**

THE ENTERPRISE MFG. CO. OF PA.
Philadelphia, U. S. A.

NEW YORK, 21 Murray Street SAN FRANCISCO, 438 Market Street

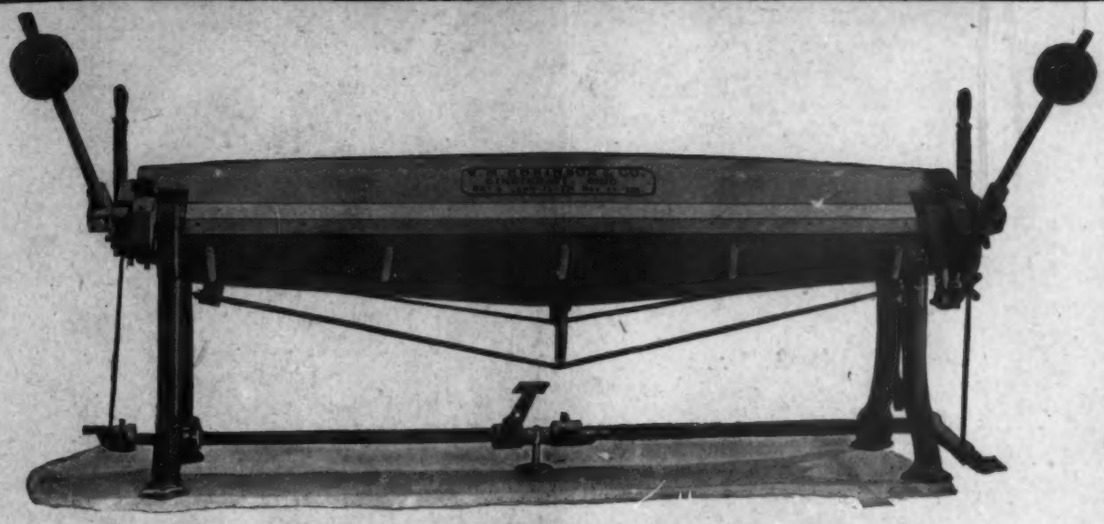
# Agate
## NICKEL-STEEL
# Ware

AGATE L&G Mfg. Co. NICKEL-STEEL WARE

is absolutely free from poisonous substance, is made by careful, experienced men, by a company founded in 1850. The first enameled ware and blue and white ware made in this country was made in our mills. We know how to make enameled ware safe and durable. We make it safe and durable because we are proud of the trade mark. Look for the blue label.

## Lalance & Grosjean Mfg. Co.

Chicago New York Boston



The above cut shows the general design of our Cornice Brake. These Machines are guaranteed for No 20 Gauge material and lighter, and with Heavy Bending Attachment for No. 18 Gauge. With each brake is furnished 2½-inch, 2-inch, 1½-inch and 1¼-inch wood formers, and 1-inch, ⅞-inch and ¾-inch iron forms, also friction clamps for holding same. All machines are fitted with foot treadles, quadrant gauge and three quadrant stops.

WRITE FOR CIRCULAR.

**The J. M. Robinson Mfg. Co.**

**SHEET METAL WORKING MACHINERY**

**Spring Grove Avenue** **Cincinnati. Ohio**

# STEVENS

OUR popular make is generations past the experimental stage. STEVENS RIFLES, PISTOLS, SHOTGUNS, etc., look right, because made right, and for their specific purposes, are positively unexcelled. These facts, together with the tremendous advertising impetus behind the STEVENS, clearly demonstrate why YOU should vigorously and at all times

**PUSH STEVENS ARMS**

For sale by all Leading Jobbers. Be sure to call for the STEVENS

*SEND FOR CATALOG*

**J. Stevens Arms & Tool Co.**

**No. 460 MAIN STREET**

**CHICOPEE FALLS, MASS.**

## THE IMPROVED ONE-PIECE MITER

This miter is made absolutely correct, true to shape, size, and bead, and the easiest connecting slip joint. Will save your time and temper. In case your supply house cannot furnish them, send your order direct to the

**J. E. WHITACRE MFG. CO.**
ROCKFORD, ILL.
Manufacturers of Sheet Metal Specialties.

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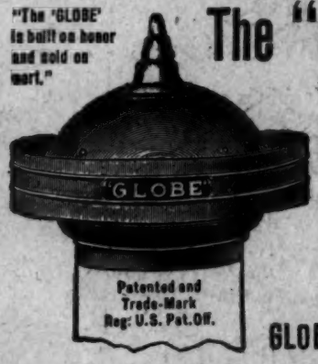
"The 'GLOBE' is built on honor and sold on merit."




## The "GLOBE" Ventilator

in COPPER, GALVANIZED IRON and with Glass Tops for Skylight purposes.

**ABSOLUTELY STORM PROOF**

For Perfectly Ventilating Schools, Churches, Halls, Mills, Factory and Audience Rooms of Every Character

**SMOKY CHIMNEYS CURED**
**"GLOBE VENTILATED RIDGING"**
*Send for Pamphlet.*
MANUFACTURED BY
**GLOBE VENTILATOR CO., Troy, N. Y.**

---

## STAY-IN Flue Stoppers

are **guaranteed** to be absolutely soot proof. Cannot be jarred or blown from flue hole.

**Finished In Brass and Nicely Decorated**

MANUFACTURED BY
**STUBER & KUCK, Peoria, Ill.**
**We Also Manufacture PIECED TINWARE and All Styles of FLOUR SIFTERS**

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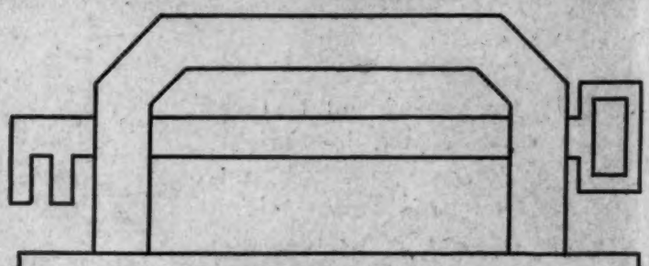

**SECURITY HAMMERED OPEN HEARTH ROOFING TIN**

A moderately-priced Roofing Plate equal in wearing qualities to leading brands of other manufacture.

MADE AND SOLD BY
**FOLLANSBEE BROTHERS CO.**
Manufacturers of
**SCOTT'S EXTRA COATED**
**ROOFING TIN**
**HAMMERED OPEN HEARTH BASE**
**PITTSBURGH**

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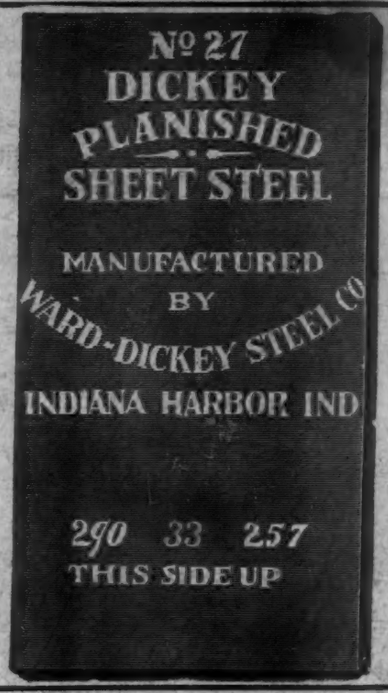


## NEVER BREAKS

The following extract was taken from the correspondence of one of the largest users in the United States.

"We had a Cylinder Stove of Russia iron and another of your steel set up on our show room floors three years ago to **test its wearing properties under long heat.** Both have had constant fires burning in them, winters, both frequently red hot. The preference in appearance is with the steel. It works like copper; **Never breaks.**"

Quotations glad made upon specifications. Circular upon request.

---

**This Space for Sale.**
**Inquire of Daniel Stern,**
**69 Dearborn St., Chicago**

---

## Technologist

**Vitreous Enameling**

Designs and builds new plants. Improves quality and reduces cost in those already established.

**C. N. HOOPER, Dubuque, Ia.**

---

## STAR EXPANSION BOLTS.

**ALL KINDS**

WE MAKE EXPANSION PARTS TO FIT THE BOLTS AND SCREWS YOU HAVE IN STOCK

ANYTHING TO FIT FROM THE SMALLEST WOOD SCREW TO THE LARGEST LAG OR MACHINE

Samples and Catalog on Request
**STAR EXPANSION BOLT CO.**
BAYONNE, N. J.

---

## PRESERVING SEASON IS HERE

**WE MAKE PRESERVING KETTLES**
From 2 Qts. to 18 Qts., in

**Blue and White and Gray Mottled Enameled Ware**

**ALSO OVER 500 OTHER FAST SELLING ITEMS**
**Star ★ Enameling & Stamping Co., PITTSBURGH, PA.**

---

## Skylights and Cornices

**Fireproof Metal Windows**
(Glazed with Wire Glass)
**Metal Ceilings and Side Walls**
***Eastlake Metal Shingles***

Gutters and Conductors, Roofings of All Kinds.

Send for Catalogue and Prices.

**The W. J. Burton Company**
**Detroit, Mich.**

---

## THE "CENTENNIAL"

**RAIN-WATER CUT-OFF**

The strongest, most durable and cheapest CUT-OFF on the market.

The only single cut off made to fit Corrugated and plain pipe and which can be used without extra pipe or elbows. For sale by all leading jobbers.

Patent applied for.

Manufactured only by
**COONEY & GEIGER**
19 and 21 East South Street, Indianapolis, Ind